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ABSTRACT

This statistical handbook describes the growth in numbers of doctorates granted in various fields and corresponding growth in numbers of colleges and universities; delineates patterns of doctoral education in the US and shows changes that occur in transition from academic to professional work; describes US doctorate recipients of foreign origin and women doctorate recipients; and provides extensive institutional data in the appendices. The source of the data is the Doctorate Records File, a repository of information from the annual Survey of Earned Doctorates distributed to graduating PhDs. The primary purpose of the report is to present useful data describing recent trends in US doctoral education. Little interpretive comment is included but "care has been taken to make the tables and figures as clear and self-explanatory as possible." (JS)

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DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

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DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES 1958-1966

A STATISTICAL REPORT

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Office of Scientific Personnel
under the sponsorship of the
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FOREWORD

How many earned doctorates are awarded annually in the United States in each discipline? How does the time lapse between the baccalaureate and the doctorate vary by field and by mode of support? Can graduates of four-year colleges compete as doctoral candidates on equal terms with those who received their baccalaureates from doctorate-granting institutions? In what order can universities be ranked as producers of doctorates? Where do recent recipients of the doctorate go for their first postdoctoral employment? Is postdoctoral education—that vigorous infant of the educational world—claiming an ever greater share of doctorate recipients? What percentage of foreign nationals receiving the doctorate in the United States return to their countries of origin? To what extent are the social sciences and the humanities attracting highly talented young people at the doctoral level to the solution of pressing social problems and the elevation of the quality of our national life? Questions such as these abound in every discussion of the strengthening of graduate education and of the contributions that graduate education makes to the national well-being. They require ever more precise answers, the approximations and folklore of the past no longer sufficing as a basis for national, regional, and institutional planning.

This book, the sixth in a series of reports published by the Office of Scientific Personnel of the National Research Council, addresses itself to these and many other questions related to doctoral education. No efforts have been spared to make the graphical presentation of data as complete and helpful to the reader as possible. We hope that the busy policy-maker will find here in good graphs and well-organized diagrams succinct presentation of relations and perhaps some new insights into old problems.

The publication of Doctorate Recipients and the development of the Doctorate Records File are among the many activities conducted by the Office of Scientific Personnel of the National Research Council in its concern for the strengthening of higher education and the development of better understanding of the educational process. Included among these activities currently are a study of postdoctoral education in the United States, a study of training programs in the general medical sciences, a study of career patterns of doctorate recipients in the general medical sciences, a study of career patterns of doctorate recipients in the sciences and engineering, and an extensive program of fellowships and research associateships. Inquiries about these projects, suggestions and criticisms of the present volume, and communications concerning the availability of additional information about doctorate recipients are invited.

Dr. Fred D. Boercker, Assistant Director of Research within the Office of Scientific Personnel, working under the direction of Dr. Lindsey R. Harmon, Director of Research, has been responsible for the production of this volume. To Dr. Boercker and his assistant, Miss Clarebeth Maguire, must go most of the credit for making "Book Six" in the Doctorate Production Series a more complete and, we hope, more interesting and more useful book than its pioneering predecessors.

The National Science Foundation provided funds for the preparation of this book and, in cooperation with the U.S. Office of Education, supports the work of maintaining and extending the important Doctorate Records File. The continuing assistance of these agencies is gratefully acknowledged.

William C. Kelly
Director
Office of Scientific Personnel

PREFACE

This is a statistical handbook about doctoral education in the United States during the past nine years. More specifically, the book describes the growth in numbers of doctorates granted in various fields and the corresponding growth in numbers of colleges and universities; it delineates some patterns of doctoral education in the United States and shows changes that occur in transition from academic to professional work; it describes two special groups—the United States doctorate recipients of foreign origin and women doctorate recipients; and finally, the book provides extensive institutional data in its appendixes.

The source of the data is the Doctorate Records File, a repository of information from the Survey of Earned Doctorates. The Survey is conducted annually by the Office of Scientific Personnel (OSP) of the National Research Council and gathers information by means of a questionnaire form. The form is distributed with the cooperation of the Graduate Deans and filled out by the graduates just as they complete all requirements for their doctoral degrees. Research doctorates in all fields are recorded, but professional degrees such as the MD, DDS, and DVM are not included. The File goes back to 1920 and includes information about almost a quarter of a million persons.

The time period covered in this report is fiscal year 1958 through fiscal year 1966. The previous volume in the series, Doctorate Production in United States Universities, 1920-1962 (NAS-NRC Publication 1142), presented a long-range historical review of doctoral education in the United States. The present volume provides more detailed information for the last nine years and serves as a complement to the preceding book. Frequent references will be made to Publication 1142.

The primary purpose of this report is to present useful data describing recent trends in doctoral education in the United States. Very little interpretative comment is included. A great deal of care has been taken to make the tables and figures as clear and self-explanatory as possible. Most of the text is intended to define any unusual terms used in tables, point out uniformities or anomalies in patterns, warn of data limitations if such exist, and generally help the reader to understand the information presented. It is especially important for the reader to realize that the data refer only to those persons who have completed doctoral programs. The statistics may not be generalized to describe all graduate education in the United States.

It is hoped that professional societies and educational researchers will use these data as bases for interpretation as this may be required. More detailed analysis of the Doctorate Records File data than is presented here is possible, and OSP invites inquiries from qualified professional, educational, or governmental agencies concerning such analysis.

The planning, compilation of information, and the writing and publication of this book have involved many persons, and we wish to acknowledge the assistance of some who have been especially helpful. Mr. Robert W. Cain, Dr. Abbott L. Ferriss, Dr. Milton Levine, Mr. Justin C. Lewis, Mr. Thomas J. Mills of

the National Science Foundation, and Dr. John L. Chase from the United States Office of Education provided data and helpful comments. Dr. Bryce Crawford, Jr., Dean of the Graduate School, University of Minnesota, and Chairman of the OSP Advisory Committee read the manuscript and contributed good suggestions. Within OSP, Dr. M. H. Trytten, Dr. William C. Kelly, and Dr. Joseph C. Boyce have encouraged these studies and have reviewed them frequently. Dr. Lindsey R. Harmon, Director of Research, supervised the project. Dr. Stanley F. Bolin of the Research Division provided valuable advice at many stages of the book's preparation. Mrs. Doris Rogowski gave helpful comments and suggestions; and Mr. Herbert Soldz, Mr. Robert Farr, and Mrs. Aida Perez looked after the data processing.

We wish also to thank each graduate dean and each recipient of the doctorate who cooperated with us by providing data. Their generous response to our appeals has been most encouraging. We trust that they will feel repaid to some extent by the knowledge that they have contributed to the development of a unique national resource of information, one that has made possible not only this report but also many other reports and studies.

Fred D. Boercker
General Editor

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DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES 1958-1966

CHAPTER I TIME TRENDS IN DOCTORATES GRANTED

- TOTAL DOCTORATES GRANTED AND INFORMATION COLLECTED ABOUT THE RECIPIENTS
- DOCTORATES GRANTED BY FIELD
- DOCTORATES GRANTED BY INSTITUTION
- DOCTORATES GRANTED BY STATE

TOTAL DOCTORATES GRANTED AND INFORMATION COLLECTED ABOUT THE RECIPIENTS

There has been an increasingly rapid growth in the number of doctorates granted by United States universities during the past half century. The universities granted 560 research doctorates in 1920. This number grew to 3,245 in 1940; totaled 9,734 in 1960; and reached 17,865 in 1966.

Accompanying the growth in the number of persons receiving doctorates has been an increasing need for more information about this pool of highly trained manpower. Universities have become more concerned with the process of graduate education leading to the doctorate; baccalaureate institutions have had to plan for a greater percentage of their graduates to continue through graduate work; and society in general has become more aware of the critical role these persons play in determining the standard and quality of living for the nation. As a result, more information about the doctorate recipients was needed, and the Office of Scientific Personnel (OSP) broadened the scope of its Survey of Earned Doctorates in the 1957 - 1958 academic year to collect the information.

Figure 1 shows the growth in numbers of doctorate recipients and in the information collected from them since 1920. Harmon and Soldz[1] presented an extensive analysis of the growth curve in Figure 1 for the years 1920 - 1962. They showed that the average long-term growth rate was 7 percent per year, but they also pointed out the rather large year-by-year fluctuations from the average.

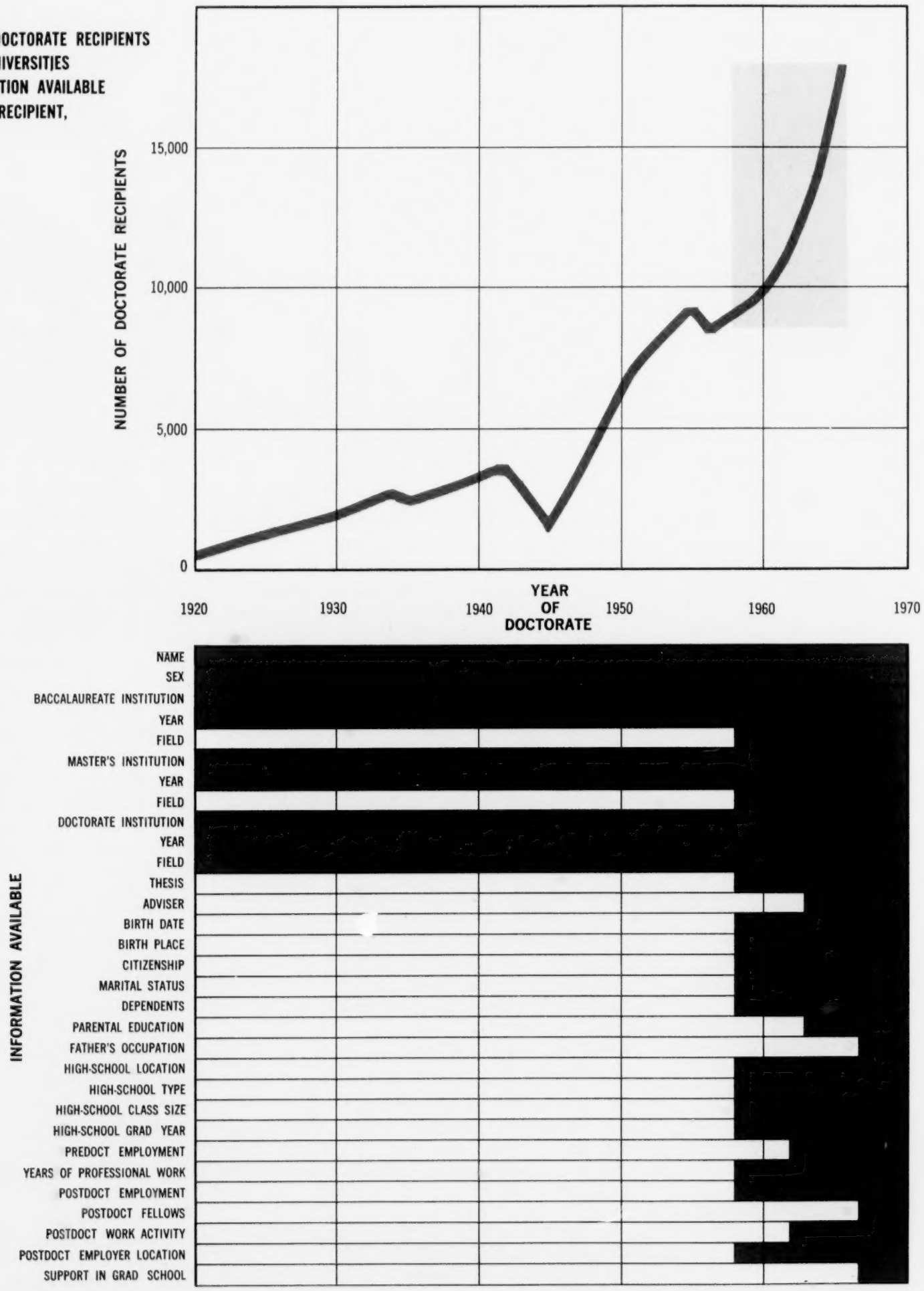
This book concentrates primarily on the period from fiscal year (FY) 1958 through fiscal year 1966.[2] The average rate of growth in numbers of doctorate recipients for this period was 9.3 percent per year. Since there were 17,865 doctorate recipients in FY 1966, one may project the number to FY 1970 as follows:

At 9 percent per year growth rate, there would be 25,000 doctorate recipients by FY 1970.

1. NAS-NRC, Doctorate Production in United States Universities, 1920-1962, Publ. 1142, Washington, D.C. (1963), pp. 1-5.

2. A fiscal year is defined here as the interval from July 1 through the following June 30. It approximates an academic year. For example, FY 1958 is approximately the same as academic year 1957 - 1958.

FIGURE 1
NUMBER OF DOCTORATE RECIPIENTS FROM U.S. UNIVERSITIES AND INFORMATION AVAILABLE ABOUT EACH RECIPIENT, 1920-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

At 10 percent per year growth rate, there would be 26,000 doctorate recipients by FY 1970.

In the period 1920 - 1966, more than 241,000 doctorates were granted in United States universities, and almost three fourths of these (72 percent) were granted after 1950. By FY 1970, the projected number of doctorate recipients would be 333,000. No attempt is made in this publication to compare the supply with projected demand.

OSP systematically collects information about doctorate recipients and compiles the Doctorate Records File upon which the facts presented in this book are based. The survey is conducted annually, with the cooperation of the Graduate Deans and with financial support from the National Science Foundation and the U.S. Office of Education (USOE), by means of a questionnaire distributed to all graduate schools. (See Appendix H for a copy of the survey form.) The forms are filled out by the students after they have completed all requirements for the doctorate and are returned to OSP where they are checked against the graduation list from each institution. Rosters are compiled and mailed to each graduate institution, to be rechecked for accuracy. The accumulated records for all these individuals are referred to as the Doctorate Records File, which is a virtually complete listing of all research doctorate recipients since 1920. However, not all respondents answer every question on the questionnaire, so the response rate on a given item will not be 100 percent. The typical response rate is about 95 - 98 percent.

Figure 1 indicates that the information collected from the doctorate recipients before FY 1958 was meagre, but since that time a very substantial amount of data has been collected each year. Agencies other than OSP collect data about degrees granted, especially USOE, but the Doctorate Records File includes the academic history of every individual receiving the doctorate. The File therefore permits studies to be made of the path and progress of each individual through higher education and into his first postdoctoral employment. Data presented in this book may be compared with USOE counts of doctoral degrees granted if the following precautions are kept in mind:

1. OSP data are counts of individuals, and USOE data are counts of degrees. A person receiving two research doctorates would be counted once by OSP (the first time) and twice by USOE.

2. OSP data include only research-level doctorates. Performance doctorates not requiring a research dissertation are not included. (Professional degrees such as MD, DDS, and DVM are excluded by both OSP and USOE in counts of third-level research degrees.)

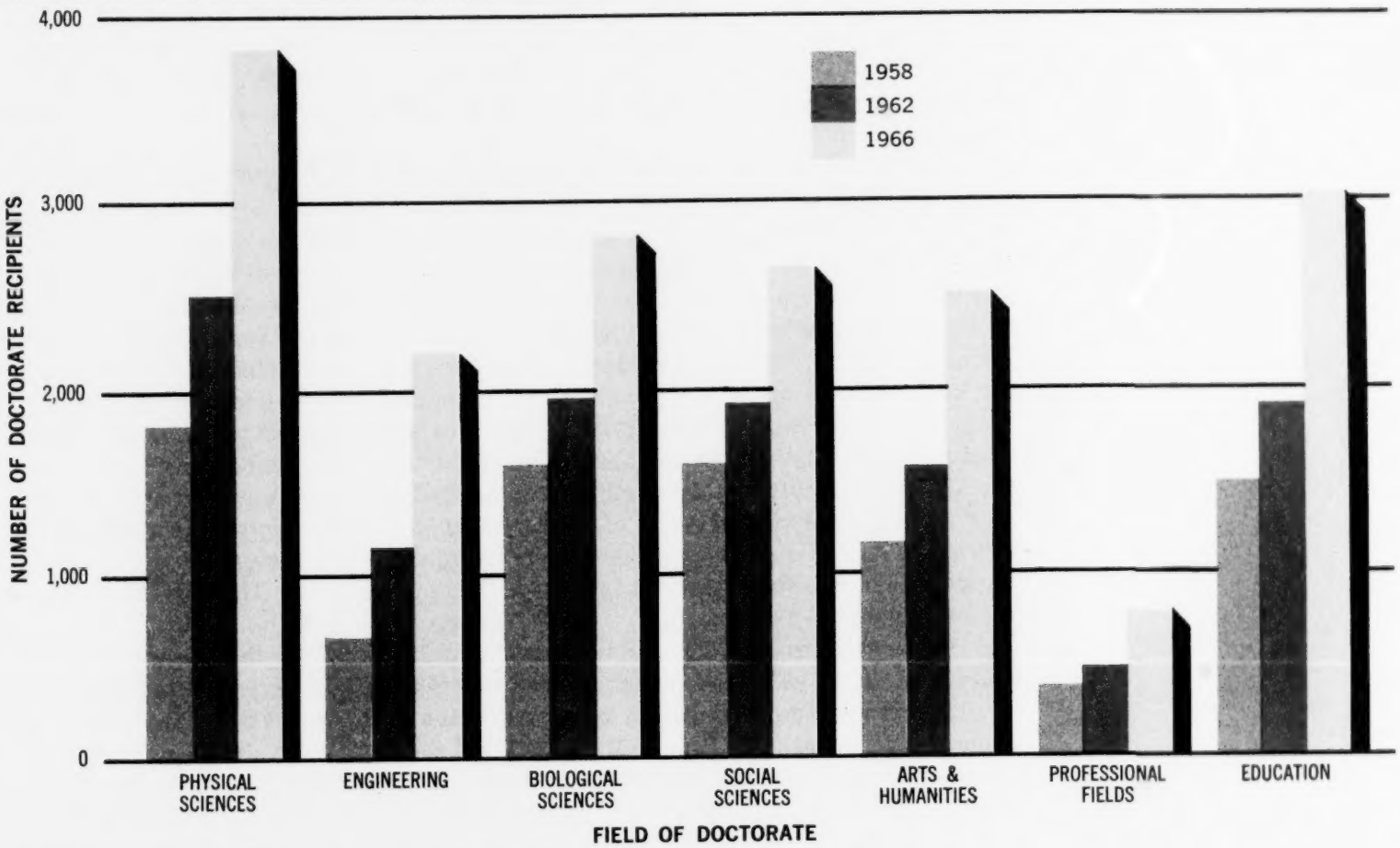
3. Certain groupings of fields (such as history, economics, etc.) into larger aggregates (such as Social Sciences) differ between OSP and USOE.

DOCTORATES GRANTED BY FIELD

Figure 2 shows the relative sizes and growth rates of seven major fields between FY 1958 and FY 1966. During this period the number of persons receiving doctorates each year increased from 8,770 to 17,865, corresponding to an average growth rate of 9.3 percent per year. The summary fields (containing fields and subfields as described in Table 1) display quite a variety of average annual growth rates:

Summary Field	% Per Year Increase
Engineering	17.7
Professional Fields	10.9
Physical Sciences	9.7
Arts and Humanities	9.5
Education	9.4
Biological Sciences	7.5
Social Sciences	6.7

FIGURE 2
DOCTORATE RECIPIENTS IN 7 FIELDS, FY 1958, 1962, AND 1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Engineering experienced spectacular growth during the nine-year period, almost quadrupling its annual doctoral production. The professional fields, especially business administration, also grew rapidly. Within the sciences, mathematics displayed above-average growth. Within the arts, modern foreign languages grew rapidly, but the fine arts and music were slow-growing. The biological and social sciences grew relatively slowly, and this was particularly true of psychology, the largest discipline in the social science group.

Table 1 provides a detailed analysis of trends in numbers of persons receiving doctorates in each of 188 subfields between FY 1958 and FY 1966. This is the only table in the book giving such fine-field analysis, since the detail would make most tables too lengthy and complex. Consolidation of fields is necessary, and Table 1 indicates the groupings of subfields into major fields.[3]

Doctorate recipients show many similarities in terms of such characteristics as sex, citizenship, marital status, and age at receipt of doctorate. The majority in all fields are men, United States citizens, married, and about 25 - 35 years old upon completion of their formal education. However, field differences do exist, and Table 2 (p. 10) compares these individual characteristics for persons in the various fields.

The physical scientists and engineers are almost all men, but one fifth of the group in the arts and humanities are women; one third of the research doctors in modern foreign languages are women. (Chapter V provides data describing women doctorate recipients.)

3. Most of the tables in this book are arranged by field in 38 parts: 25 fields (excluding education); 6 display subfields (2 each for physics, chemistry, and engineering); 6 major fields (including education); 1 grand total.

TABLE 1

Doctorates Granted in 188 Subfields, Fiscal Years (FY) 1958 - 1966

Subfield of Doctorate	Fiscal Year of Doctorate 1958	1959	1960	1961	1962	1963	1964	1965	1966
TOTAL ALL FIELDS	8,770	9,212	9,734	10,411	11,507	12,720	14,324	16,302	17,865
PHYSICAL SCIENCES AND ENG									
MATHEMATICS									
Algebra	24	29	35	25	60	78	72	97	125
Analysis	72	76	71	92	101	114	178	164	181
Geometry	5	10	12	13	21	14	26	23	22
Logic	4	7	2	7	13	16	15	26	23
Number Theory	4	10	11	13	19	20	20	17	20
Probability, Math Statist	35	42	64	67	66	70	101	103	121
Topology	15	24	26	18	37	46	57	91	87
Topol Algebraic Structures	22	21	17	13	11	20	14	19	15
Computing Theory and Practice	—	—	4	11	6	14	14	17	18
Applied Mathematics	34	44	31	53	42	64	69	91	112
Mathematics, General	18	16	13	13	10	12	13	18	20
Mathematics, Other	5	10	5	7	2	16	11	18	22
PHYSICS AND ASTRONOMY									
Astronomy	20	20	11	16	28	34	45	64	66
Atomic and Mol Physics	57	66	49	68	81	90	114	110	111
Electromagnetism	9	6	7	20	20	23	36	32	39
Mechanics	2	3	1	5	5	7	5	8	5
Acoustics	17	9	11	8	7	14	7	7	10
Fluids	—	1	4	19	30	22	14	32	28
Optics	1	8	8	7	7	7	8	13	9
Thermal Physics	—	—	3	2	4	12	10	21	19
Elementary Particles	39	50	51	68	114	153	147	180	161
Nuclear Physics	11	2	2	2	—	—	—	—	—
Nuclear Structure	97	113	115	113	151	155	147	158	154
Solid State	107	110	136	123	161	175	211	299	295
Theoretical Physics	81	83	89	114	55	3	—	—	—
Physics, General	24	15	8	7	25	46	54	41	56
Physics, Other	31	29	36	25	22	77	66	81	96
CHEMISTRY									
Analytical	77	61	65	71	92	84	109	88	120
Inorganic	68	61	96	100	98	118	148	153	165
Organic	390	488	468	506	477	516	528	611	641
Nuclear	—	—	13	31	24	36	31	25	27
Physical	272	298	317	310	343	366	376	424	425
Theoretical	—	—	11	20	19	25	27	27	27
Agricultural and Food	33	36	32	42	26	40	48	36	51
Pharmaceutical	37	34	34	37	38	50	44	48	60
Chemistry, General	64	38	30	11	11	38	20	12	45
Chemistry, Other	23	38	11	22	9	15	20	15	19
EARTH SCIENCES									
Mineral, Petrol, Geochem	44	82	68	78	68	94	68	99	97
Stratigr, Sedimentation	53	63	75	61	42	57	61	56	59
Paleontology	14	14	21	16	30	39	26	41	45
Structural Geology	6	10	8	7	17	17	15	20	28

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate 1958	1959	1960	1961	1962	1963	1964	1965	1966
Solid Earth Geophysics	18	12	26	35	19	20	25	25	31
Geomorphol, Glacial Geology	10	11	10	6	12	9	10	18	8
Hydrology	—	1	1	4	2	3	4	4	6
Oceanography	14	8	6	8	14	15	18	29	39
Meteorology	14	12	23	14	17	21	32	34	34
Appl Geol, Geol Eng, Econ Geol	16	17	15	17	22	26	32	32	28
Earth Sciences, General	—	1	—	—	6	9	12	7	13
Earth Sciences, Other	1	1	—	—	—	12	9	9	11
ENGINEERING									
Aeronautical and Astronautical	32	24	23	40	52	66	70	82	108
Agricultural	13	18	23	17	14	19	28	30	39
Civil	52	53	62	91	125	127	193	210	236
Chemical	133	148	180	187	240	243	276	369	362
Ceramic	12	11	14	16	23	19	24	31	37
Electrical	114	140	160	209	232	288	345	395	469
Electronics	32	31	41	40	64	89	97	100	96
Industrial	12	12	14	21	21	23	28	56	45
Engineering Mechanics	46	54	46	72	103	94	131	177	185
Engineering Physics	13	26	26	26	41	60	79	96	131
Mechanical	72	80	98	100	148	154	183	249	271
Metallurgy and Phys Met Eng	75	77	77	77	103	116	114	172	172
Sanitary	8	10	12	24	21	24	34	33	56
Textile	—	1	—	—	—	—	—	—	—
Engineering, General	4	1	1	3	3	5	6	7	7
Engineering, Other	11	13	15	17	25	30	54	61	69
BIOLOGICAL SCIENCES									
BIOCHEMISTRY	237	217	259	272	286	300	371	391	446
BIOPHYSICS	21	23	23	25	33	36	40	54	83
BIOMETRICS, BIOSTATISTICS	3	3	11	7	10	14	22	24	20
PHYSIOLOGY, ANIMAL	—	—	2	2	77	136	182	194	182
PHYSIOLOGY	131	137	122	131	54	—	—	—	—
PHYSIOLOGY, PLANT	1	2	5	—	29	71	54	76	73
ANATOMY	30	36	31	45	49	51	56	88	66
CYTOLOGY	—	1	—	—	18	21	27	31	29
ENTOMOLOGY	93	72	95	95	102	86	105	134	128
MICROBIOLOGY	203	168	184	176	199	210	194	273	286
GENETICS	71	75	74	73	81	97	98	102	113
EMBRYOLOGY	—	—	2	1	8	15	22	20	37
ECOLOGY	29	20	30	32	39	45	38	34	34
HYDROBIOLOGY	7	6	5	3	3	16	7	15	12
BOTANY	90	92	118	116	98	108	133	144	160
ZOOLOGY	140	135	175	170	187	186	204	226	267
BIOL SCIENCES, GENERAL	20	22	13	5	10	2	6	3	15

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
BIOL SCIENCES, OTHER	15	12	11	18	16	17	25	16	30
AGRICULTURE AND FORESTRY									
Agronomy	100	97	136	143	141	137	155	168	169
Animal Husbandry	73	50	105	121	113	110	123	144	143
Fish and Wildlife	21	22	17	14	22	21	24	13	21
Forestry	18	32	25	30	36	27	46	44	46
Horticulture	38	48	47	46	55	44	57	75	71
Phytopathology	67	74	70	72	83	92	72	96	87
Agriculture, General	9	1	2	1	1	2	3	4	3
Agriculture, Other	11	18	11	11	19	32	37	32	32
HEALTH SCIENCES									
Medicine and Surgery	18	9	5	14	7	12	18	11	15
Pharmacy	30	35	20	22	37	32	31	41	44
Public Health	12	23	23	28	22	22	39	35	56
Veterinary Medicine	11	14	9	18	22	22	26	32	38
Hospital Administration	2	—	3	4	2	2	3	2	3
Optometry and Ophthalmology	—	1	2	3	1	1	1	5	2
Dentistry	3	3	—	4	1	—	1	1	—
Pharmacology	48	40	53	49	74	70	89	97	104
Pathology	14	14	11	22	23	21	31	36	37
Nutrition	50	66	24	1	1	2	—	—	—
Health Sciences, General	—	—	—	—	1	3	4	2	2
Health Sciences, Other	6	14	7	8	16	13	19	16	15
SOCIAL SCIENCES									
ANTHROPOLOGY	53	58	69	55	82	82	83	82	98
ARCHEOLOGY	10	9	8	5	6	9	10	10	11
SOCIOLOGY	158	180	162	167	184	211	201	239	258
ECONOMICS	322	321	341	405	403	423	511	538	597
ECONOMETRICS	9	6	11	8	15	27	15	23	25
POLITICAL SCIENCE, PUBLIC ADMIN	171	191	185	218	223	232	263	326	327
INTERNATIONAL RELATIONS	40	39	53	36	55	58	73	65	74
GEOGRAPHY	60	48	64	50	56	58	65	71	55
AREA STUDIES	1	2	—	1	2	10	5	3	1
SOCIAL WORK	19	27	20	38	30	41	39	38	56
SOCIAL SCIENCES, GENERAL	2	4	7	3	—	12	3	4	4
SOCIAL SCIENCES, OTHER	8	8	4	15	15	23	23	23	27
PSYCHOLOGY									
Clinical	246	283	241	299	293	303	398	335	368
Counseling and Guidance	45	46	67	67	60	48	47	47	57
Develop and Gerontol	31	20	22	20	26	20	19	28	40
Educational	76	70	60	75	56	35	38	36	47
School Psychology	—	—	7	15	9	17	22	16	10
Exper, Comp, and Physiol	147	176	196	171	77	3	3	4	1

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate 1958	1959	1960	1961	1962	1963	1964	1965	1966
Experimental	1	—	—	4	109	197	221	215	267
Comparative	—	—	—	—	15	19	11	11	9
Physiological	—	—	—	1	25	50	37	43	75
Human Engineering	5	7	5	4	4	1	—	—	3
Industrial and Personnel	24	43	34	27	36	41	50	37	47
Personality	1		11	18	27	29	36	28	35
Psychometrics	16	31	15	20	19	15	22	17	25
Social	74	65	80	68	81	92	90	100	107
Psychology, General	68	32	27	25	16	16	14	31	33
Psychology, Other	11	14	8	6	4	6	5	7	9
ARTS AND HUMANITIES									
HISTORY	317	331	364	375	366	389	529	606	644
ENGLISH AND AMERICAN LANG AND LIT	333	340	386	373	464	492	531	666	666
GERMAN LANG AND LIT	—	—	—	—	35	39	77	65	92
FRENCH LANG AND LIT	—	—	—	—	51	63	83	84	112
SPANISH AND PORTUGUESE LANG AND LIT	—	—	—	—	28	55	62	91	98
LINGUISTICS	42	28	46	46	46	45	64	72	98
ITALIAN LANG AND LIT	—	—	—	—	3	4	5	5	4
RUSSIAN LANG AND LIT	—	—	—	—	7	4	10	11	12
OTHER SLAVIC LANG AND LIT	—	—	—	—	6	8	5	8	8
ALL OTHER MODERN LANGUAGES	—	—	—	—	9	7	8	16	17
MODERN FOREIGN, UNSPECIFIED	157	180	168	189	57	29	21	41	37
CLASSICAL LANG AND LIT	32	39	45	48	56	57	74	92	71
PHILOSOPHY	99	105	135	148	125	138	139	148	199
SPEECH AND DRAMATIC ARTS	106	130	143	147	173	191	193	237	240
ART, FINE AND APPLIED	54	48	48	54	41	26	45	52	52
MUSIC	70	67	100	104	88	102	126	119	124
ARTS AND HUMANITIES, GENERAL	4	3	4	1	3	3	—	2	3
ARTS AND HUMANITIES, OTHER	4	1	9	10	4	11	12	9	20
PROFESSIONAL FIELDS									
BUSINESS ADMINISTRATION	120	137	140	148	199	224	245	286	370
RELIGION AND THEOLOGY	134	142	146	124	159	173	177	185	188
HOME ECONOMICS	13	14	23	30	27	35	30	43	43
JOURNALISM	7	14	13	13	9	13	21	24	17
LAW, JURISPRUDENCE	31	22	19	32	35	30	34	24	28
LIBRARY AND ARCHIVAL SCIENCE	18	7	19	16	9	15	14	12	17
ARCHITECTURE	2	—	2	1	—	2	5	5	7
SCI, GEN; SCI, OTHER; OTHER GEN	1	1	6	4	6	12	20	5	60

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate 1958	1959	1960	1961	1962	1963	1964	1965	1966
EDUCATION									
Foundations: Social, Philos	—	1	—	1	69	107	134	193	232
Elementary Education, General	1	1	71	132	126	128	149	187	203
Secondary Education, General	—	—	100	227	153	78	127	136	160
Educational Psychology	5	6	2	4	81	173	187	218	225
Educational Meas and Statist	—	—	1	—	16	18	25	31	40
Educational Admin and Supervision	2	1	313	513	609	717	700	836	905
Guidance, Couns, Student Pers	1	1	3	3	121	217	291	337	377
Spec Educ, Field Unspecified	—	—	—	—	4	14	20	21	25
Gifted	—	—	—	—	2	4	7	5	2
Speech	—	—	—	—	6	7	38	29	33
Physically Handicapped	—	—	—	—	2	8	7	9	14
Emot and Ment Handicapped	—	—	—	1	16	39	47	45	56
Audio-Visual Media	—	—	—	—	13	24	19	34	37
Agriculture	—	—	23	41	25	29	32	29	43
Art	—	—	—	1	7	34	20	21	19
Business	2	2	4	—	20	41	42	43	52
English	—	—	—	—	21	37	26	27	42
Foreign Language	—	—	—	—	7	4	1	7	7
Home Economics	—	—	—	—	9	18	19	19	21
Industrial Arts	—	—	—	—	8	21	35	34	36
Mathematics	—	1	—	1	14	31	36	60	56
Music	—	3	1	—	30	68	69	71	57
Phys Ed, Health, and Rec	9	12	78	111	104	131	121	141	172
Science Education	—	—	52	79	93	75	79	104	105
Social Science Education	—	—	1	—	23	26	42	35	28
Vocational Education	—	—	1	—	7	16	11	16	29
Other Special Fields	1	—	—	3	28	45	28	16	15
Education, General	1,468	1,524	897	563	282	16	24	15	29
Education, Other	—	—	—	—	2	4	12	8	6

Note: Very large trend changes within one year are generally caused by changes in subfield definition or subfield inclusion in the questionnaire specialties list.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

For historical data, see pp. 10-13 of NAS-NRC Publ. 1142.

TABLE 2

Characteristics of Doctorate Recipients, by Field of Doctorate, FY 1966

Field of Doctorate	Number of Doctorate Recipients FY 1966	Characteristics of 1966 Doctorate Recipients: Sex M %	Sex F %	Citizenship U.S. %	Citizenship Non U.S. %	Citizenship Unk %	Marital Status Mrd %	Marital Status Sgl %	Marital Status Unk %	Age at Doctorate Q_1* (years)	Age at Doctorate Q_2	Age at Doctorate Q_3
TOTAL ALL FIELDS	17,865	88	12	82	14	4	73	22	5	28.5	31.8	37.0
PHYSICAL SCIENCES AND ENGINEERING	6,077	97	3	78	18	4	72	23	5	27.4	29.3	32.4
MATHEMATICS	766	94	6	82	16	2	65	31	4	26.7	28.5	31.5
PHYSICS AND ASTRONOMY	1,049	98	2	79	16	5	70	24	6	27.5	29.0	31.6
Elementary Particles	161	100	—	78	20	2	68	30	2	27.2	28.4	30.0
Solid State	295	97	3	86	14	—	71	28	1	27.9	29.4	31.8
CHEMISTRY	1,580	94	6	81	15	4	68	28	4	27.0	28.4	31.1
Organic	641	93	7	86	13	1	70	28	1	26.8	27.9	30.5
Physical	425	94	6	84	15	1	72	26	2	27.1	28.5	31.2
EARTH SCIENCES	399	97	3	81	16	3	80	15	5	28.6	31.1	34.7
ENGINEERING	2,283	100	—	73	23	4	76	18	5	28.0	30.2	33.5
Chemical	362	99	1	79	16	5	71	22	7	27.1	28.6	31.3
Electrical	469	100	—	71	25	4	72	22	6	28.0	30.2	33.2
BIOLOGICAL SCIENCES	2,869	88	12	77	21	2	76	21	4	28.4	31.1	34.9
AGRICULTURE AND FORESTRY	572	99	1	65	33	2	81	15	4	29.5	32.3	35.7
HEALTH SCIENCES	316	91	9	75	24	1	77	20	3	29.4	32.3	36.6
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	804	85	15	78	20	2	72	24	3	27.7	29.7	33.4
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	659	83	17	79	20	1	76	22	2	28.4	30.8	35.2
ECOLOGY, HYDROBIOLOGY	46	98	2	83	17	—	85	11	4	28.5	30.7	33.8
BOTANY, ZOOLOGY, GENERAL BIOLOGY	472	86	14	85	10	6	73	20	7	28.4	30.9	35.3
SOCIAL SCIENCES	2,666	85	15	83	13	4	74	21	5	28.6	32.0	36.6
PSYCHOLOGY	1,133	79	21	92	6	3	72	24	4	28.0	30.6	35.3
ANTHROPOLOGY AND ARCHEOLOGY	109	78	22	82	15	4	72	24	4	30.6	34.3	38.1
SOCIOLOGY	258	84	16	86	12	2	76	20	4	29.7	33.4	38.3
ECONOMICS AND ECONOMETRICS	622	96	4	70	25	5	76	18	6	28.8	32.2	36.5
POLIT SCI AND INT RELAT	401	92	8	77	18	5	74	19	8	28.6	31.7	36.7
ARTS AND HUMANITIES	2,497	80	20	87	8	5	67	27	6	29.7	33.6	38.3
HISTORY	644	88	12	87	7	6	69	25	7	29.2	32.8	37.1

TABLE 2

(continued)

Field of Doctorate	Number of Doctorate Recipients FY 1966	Characteristics of 1966 Doctorate Recipients: Sex M %	Sex F %	Citizenship U.S. %	Citizenship Non U.S. %	Citizenship Unk %	Marital Status Mrd %	Marital Status Sgl %	Marital Status Unk %	Age at Doctorate Q_1* (years)	Age at Doctorate Q_2	Age at Doctorate Q_3
ENGLISH AND AMERICAN LANG AND LIT	666	77	23	90	6	4	67	29	5	29.6	33.4	37.7
MODERN FOREIGN LANG AND LIT	478	68	32	79	17	4	62	32	6	30.3	34.1	39.3
CLASSIC LANG AND LIT	71	87	13	82	14	4	62	32	6	30.4	33.9	38.9
PHILOSOPHY	199	89	11	82	9	9	67	23	11	28.3	30.6	34.7
SPEECH AND DRAMATIC ARTS	240	84	16	96	4	—	78	22	—	30.7	35.0	39.6
FINE ARTS AND MUSIC	176	81	19	89	7	4	68	26	6	32.7	37.2	41.9
PROFESSIONAL FIELDS	730	90	10	74	12	14	67	18	15	30.8	34.5	39.2
BUSINESS ADMINISTRATION	370	96	4	80	11	9	76	14	11	29.8	33.5	38.6
RELIGION AND THEOLOGY	188	94	6	79	10	11	68	21	11	32.5	35.2	38.8
EDUCATION	3,026	81	19	95	4	1	81	18	2	34.2	38.4	43.5

*Q_1 (first quartile): one quarter received the doctorate at this age or younger; Q_2 (second quartile or median): one half received the doctorate at this age or younger; Q_3 (third quartile): three fourths received the doctorate at this age or younger.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

For historical data, see pp. 44-54 of Publ. 1142.

More than 70 percent of these people were married by the time they received the doctorate.

The biological scientists had the highest percentage of non-United States citizens; one third of the doctorate recipients in agriculture were foreigners. Arts and humanities and education had the lowest percentage of non-United States citizens. (Chapter IV describes the United States doctorates of foreign origin.)

Age at receipt of the doctorate varies appreciably by field. Physical scientists, especially chemists, complete their formal education earliest; three fourths have the doctorate by age 33. In contrast, not until age 44 do three fourths of the education and fine arts majors receive the doctorate. These statistics may be misleading and require some interpretation. By custom, natural scientists attempt to complete all their formal education in one uninterrupted sequence. Certain arts and humanities, professional, and education fields encourage their students to obtain professional experience before entering upon doctoral work. More detailed data on time lapse from baccalaureate to doctorate is presented in Chapter II.

DOCTORATES GRANTED BY INSTITUTION

Doctoral Institutions

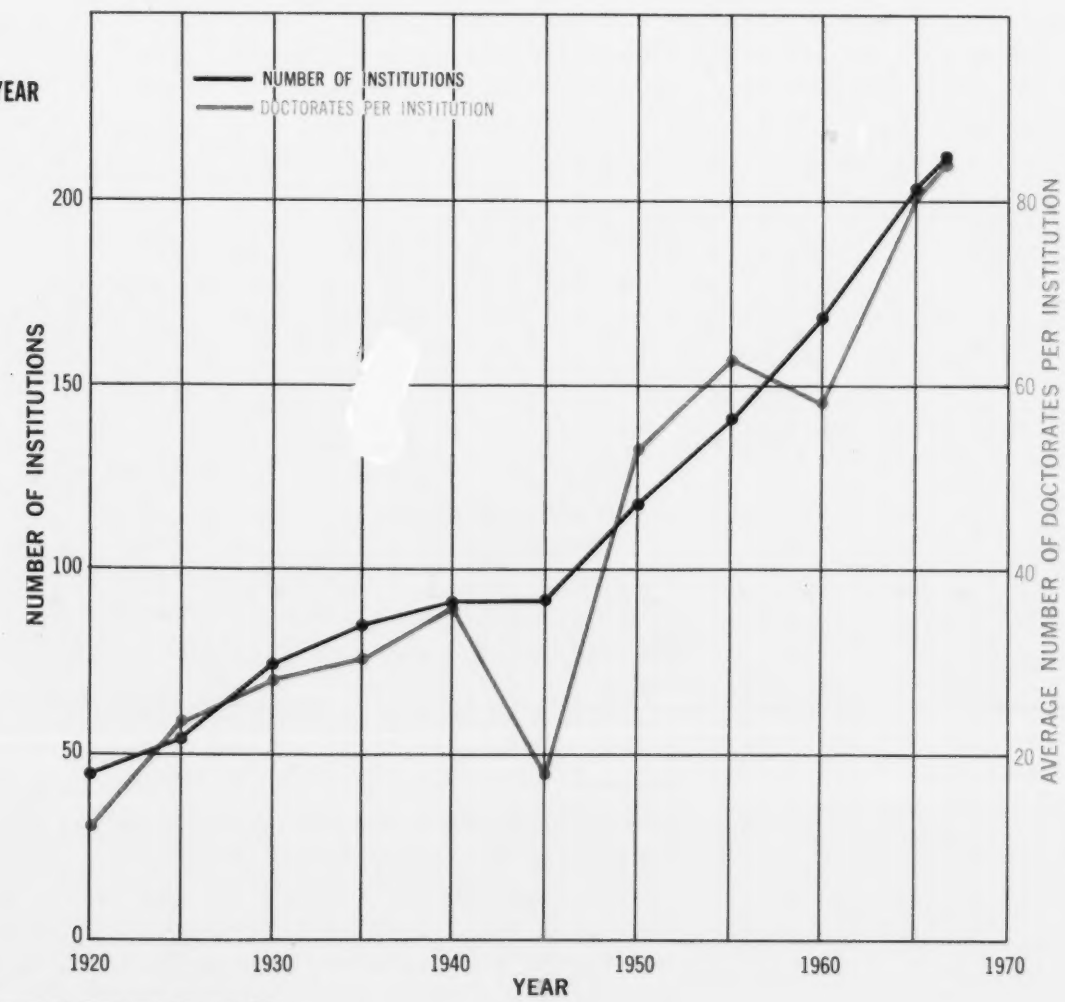
The number of doctorate-granting institutions[4] in the United States has been increasing for the past 45 years, doubling about every 20 years. The number of doctoral degrees granted by these institutions has increased at a more rapid rate, doubling every 8 - 10 years. As a consequence, the average number of doctorates granted per institution has increased from 12 in 1920 to 85 in 1966. Figure 3 depicts these relations.

The averages plotted in Figure 3 obscure a great deal of variability among institutions. For instance, four universities granted over 500 doctorates in FY 1966 while twenty universities granted 2 or fewer doctorates during that year. Does the average increase in doctorates per institution reflect an enormous increase in the doctoral production of a few large institutions, or has the number of "high producer" institutions been increasing? Figure 4 supplies data on this question.

During the post-World-War-II era (1950 - 1966) the number of doctoral institutions almost doubled, increasing from 118 to 212. Concurrently, the number of institutions supplying a given percentage of doctorates (25, 50, or 75 percent) also doubled. As a result, the percentage of institutions supplying a given percentage of doctorates has remained almost constant. Four to five percent of the institutions supplied 25 percent of the doctorates during the entire period; eleven percent of the institutions supplied 50 percent of the doctorates; and twenty-four to twenty-six percent supplied 75 percent of the doctorates. As the number of doctorate-granting institutions grows, there is a proportionate increase in the number of inner-core high producers. The large

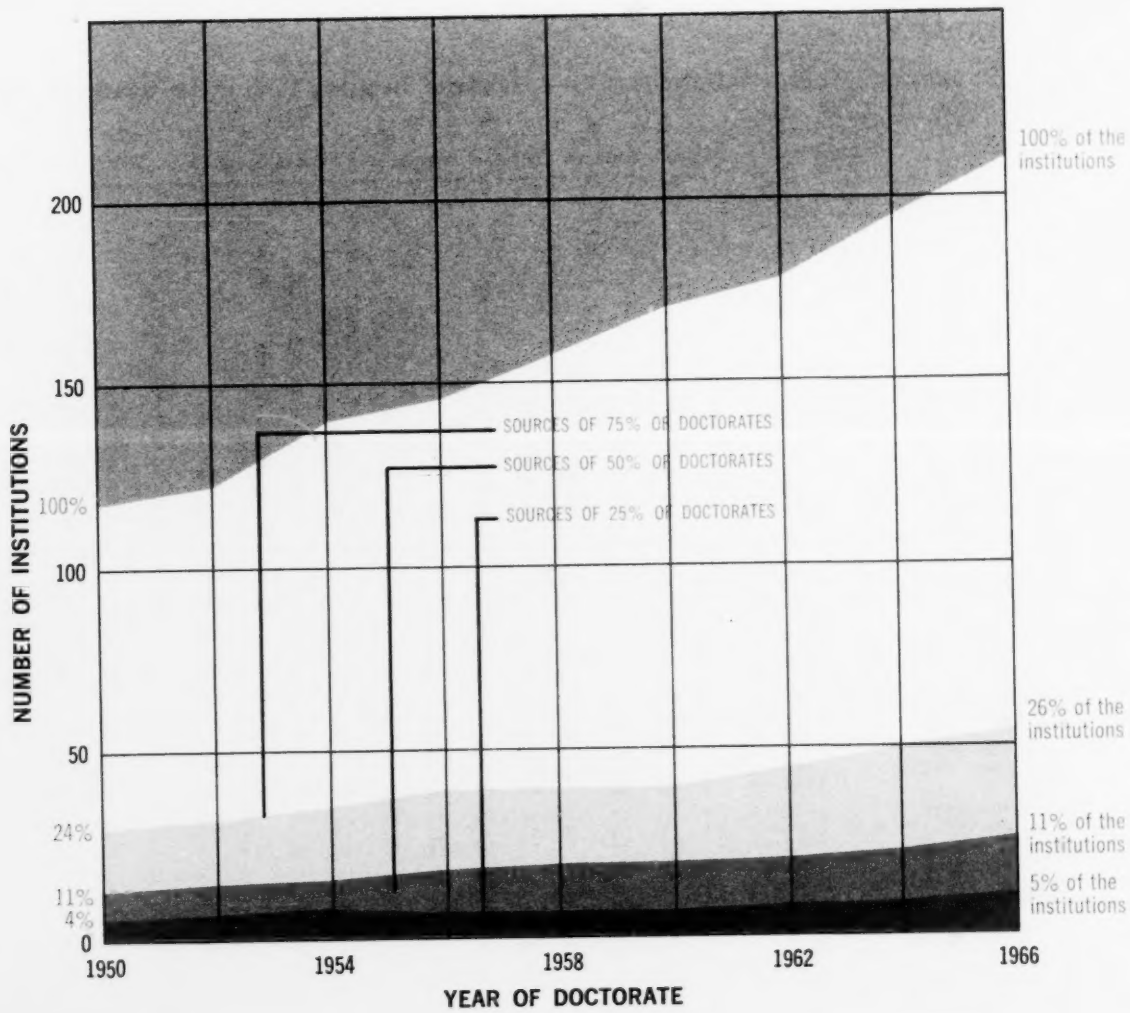
4. A doctorate-granting institution is defined here as one that has granted at least 1 research doctorate, not simply as one that offers a doctoral program.

FIGURE 3
NUMBER OF INSTITUTIONS GRANTING DOCTORATES, FIVE-YEAR INTERVALS, 1920-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 4
NUMBER OF U.S. INSTITUTIONS THAT GRANTED 25%, 50%, AND 75% OF ALL DOCTORATES, 1950-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data, see p. 18 of NAS-NRC Publication 1142.

established institutions are growing, but new centers of high doctoral production are continually being created.

Although 14 of the top 20 institutions of 1920 remain in the top 20 of 1966, changes are occurring. All 6 of the "newcomers" are public, and 5 of the 6 that dropped below rank 20 are private. In 1920, 12 of the top 20 were private universities and 4 of the top 5 were private. By 1966, only 7 of the top 20 and 1 of the top 5 were private universities.[5] Large public universities are slowly taking the lead as sources of doctorates.

Even the very large universities specialize to a certain degree. Their doctoral programs have larger outputs in certain fields than in others. As a result, institutions that are leading over-all doctoral sources are not leaders in every field. Table 3 illustrates this point. The table lists in rank order the leading 100 doctorate-granting institutions based on total doctorates granted between FY 1958 and FY 1966. The body of the table shows the rank of each institution as a doctoral source in various fields for three time periods.

Four of the institutions listed in the top twenty-five ranked below 100 in some field during the FY 1964 - 1966 period. Conversely, some institutions with over-all ranks below 100, and not listed in Table 3, have relatively high ranks in one or two fields. For instance, the University of Miami ranks 2nd in ecology, and Montana State University ranks 19th in that field; Drew University ranks 6th in religion and theology; and the University of Mississippi is 17th in health sciences.

5. NAS-NRC, Publ. 1142, op. cit., p. 19, and unpublished data from the Doctorate Records File.

TABLE 3

Ranks, by Doctorate Output, of One Hundred Leading Doctorate-Granting Institutions, by Field, FY 1958 - 1966

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	Rank, by Doctorate Output, of Institution by Field of Doctorate																								
		MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC, LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
ILLINOIS, UNIVERSITY OF	1958-60	3	5	1	3	2	6	4	3	8	16	6	11	28	7	5	22	12	6	11	14	19	7	24	4	28	9
	1961-63	7	7	1	1	5	6	10	5	3	36	5	10	29	21	4	11	8	6	13	20	15	5	13	4	33	11
	1964-66	7	6	1	7	2	6	5	3	7	4	8	10	30	23	12	27	34	9	12	21	24	5	8	5	32	0
WISCONSIN, UNIVERSITY OF	1958-60	20	22	5	7	6	1	1	2	1	43	1	24	12	9	3	19	3	3	7	14	22	2	29	11	28	13
	1961-63	9	10	5	2	7	1	2	1	1	3	1	21	14	14	2	18	4	4	8	18	13	4	22	10	33	13
	1964-66	7	8	3	1	15	2	2	2	1	5	3	20	12	14	3	24	3	2	10	14	24	3	18	16	32	10
CALIF, UNIV OF, BERKELEY	1958-60	6	1	4	12	9	21	21	1	4	9	3	14	5	9	4	11	5	23	5	11	13	31	15	38	28	15
	1961-63	1	1	2	8	6	23	12	3	2	2	2	9	7	9	3	10	3	12	6	12	18	36	22	14	33	17
	1964-66	1	1	2	4	4	22	27	1	4	14	1	4	2	3	2	5	4	11	5	5	12	38	32	15	32	11
HARVARD UNIV MASS	1958-60	2	2	8	6	20	41	18	5	23	3	5	10	2	2	1	3	1	2	2	1	3	31	4	2	8	6
	1961-63	2	2	10	4	37	48	8	5	18	9	12	13	1	5	1	4	1	3	2	1	2	36	5	1	5	14
	1964-66	3	2	12	9	47	57	11	5	36	19	19	15	1	8	1	4	1	3	1	1	3	38	4	1	5	20
COLUMBIA UNIVERSITY N Y	1958-60	17	4	13	1	8	51	24	19	26	16	18	2	1	1	2	1	2	1	1	4	2	16	13	9	4	40
	1961-63	11	5	13	7	12	48	18	12	23	55	7	3	2	2	4	1	2	1	1	8	3	26	6	8	7	49
	1964-66	17	4	24	5	17	57	11	22	21	58	13	5	5	2	4	2	2	1	2	3	2	34	9	11	7	63
MICHIGAN, UNIVERSITY OF	1958-60	8	9	11	15	4	18	8	26	13	1	2	5	7	9	15	6	13	7	4	27	9	2	8	7	28	17
	1961-63	6	13	7	10	5	22	4	24	16	7	3	2	11	5	17	14	10	7	3	12	7	6	7	7	24	10
	1964-66	6	11	26	7	6	25	4	40	20	11	5	2	6	14	18	12	19	5	6	21	12	18	12	18	32	15
NEW YORK UNIVERSITY	1958-60	1	11	32	25	29	51	31	14	19	43	15	1	20	7	12	5	20	9	11	21	22	11	3	3	18	2
	1961-63	4	24	26	29	28	48	34	16	39	55	42	1	15	8	12	3	10	10	10	23	30	19	4	6	18	2
	1964-66	3	26	41	29	22	57	61	27	21	58	43	1	23	4	18	1	9	7	7	17	24	27	4	4	16	6
OHIO STATE UNIVERSITY	1958-60	24	13	6	17	10	7	5	14	5	9	10	7	23	4	7	25	13	21	17	9	34	5	8	5	28	7
	1961-63	25	16	8	25	8	8	8	13	7	9	16	6	19	3	6	26	28	27	19	33	36	2	10	4	33	8
	1964-66	24	20	6	16	9	10	9	13	10	58	15	8	30	8	9	52	22	32	21	17	33	2	17	9	32	7
MINNESOTA, UNIVERSITY OF	1958-60	15	39	9	25	13	5	3	12	3	16	14	3	28	6	16	14	8	10	20	27	12	10	19	21	28	25
	1961-63	16	33	18	36	19	5	1	6	5	9	17	5	19	10	9	14	18	10	19	33	18	8	17	18	33	19
	1964-66	14	44	14	24	14	3	1	5	3	26	15	7	17	6	11	9	16	12	24	39	55	10	21	13	32	23
STANFORD UNIVERSITY CAL	1958-60	12	18	39	5	3	41	60	36	37	23	20	27	16	32	24	22	10	15	19	27	19	9	15	7	28	5
	1961-63	7	9	45	3	3	48	34	38	27	17	20	22	15	14	21	18	15	9	19	33	20	10	19	14	33	9
	1964-66	2	15	34	3	3	57	70	19	36	19	31	11	9	33	16	27	13	17	15	17	14	8	32	10	32	17
PURDUE UNIVERSITY	1958-60	9	24	3	57	5	8	2	4	7	9	12	4	28	24	14	59	76	76	57	27	48	11	38	38	28	59
	1961-63	18	31	3	56	4	6	3	4	6	17	35	4	29	22	15	71	85	79	66	33	53	6	42	29	33	59
	1964-66	20	17	4	63	5	7	3	8	8	1	21	3	39	25	7	72	98	96	73	39	64	11	48	36	32	52
INDIANA UNIVERSITY	1958-60	24	41	33	20	76	51	84	42	27	43	15	22	7	27	16	15	16	13	9	27	22	20	10	1	28	3
	1961-63	24	35	23	19	86	48	34	50	25	17	9	18	13	24	24	12	10	14	3	33	20	13	2	2	33	3
	1964-66	23	26	27	31	106	57	36	20	17	7	31	32	17	26	17	6	10	10	3	32	16	13	1	2	28	2
CHICAGO, UNIVERSITY OF	1958-60	4	7	28	13	76	51	12	16	23	23	19	6	3	2	6	2	6	7	15	4	7	31	15	10	5	31
	1961-63	15	12	15	11	86	48	14	11	34	17	7	7	2	1	8	2	5	19	16	5	15	36	29	17	4	28
	1964-66	10	16	19	12	106	57	11	15	44	26	9	9	3	1	14	6	6	21	18	10	5	38	22	20	1	29
MASS INSTITUTE OF TECHNOLOGY	1958-60	11	3	2	8	1	51	84	46	102	43	84	88	28	61	7	59	76	76	48	27	48	31	38	30	28	101
	1961-63	3	2	4	6	1	48	67	21	118	55	78	104	29	63	10	37	85	79	66	33	53	36	42	29	33	108
	1964-66	5	3	5	6	1	51	80	27	63	58	96	88	39	69	5	22	98	96	27	39	55	38	48	22	32	120
CORNELL UNIVERSITY N Y	1958-60	30	6	17	24	10	2	5	6	2	6	9	29	5	5	18	16	30	26	13	11	44	25	21	18	28	28
	1961-63	38	7	16	39	10	3	19	8	4	1	11	48	5	4	14	17	22	21	15	18	11	19	16	26	33	34
	1964-66	15	9	13	45	12	5	14	4	5	5	9	30	9	7	15	22	26	21	20	6	16	23	26	28	32	45
YALE UNIVERSITY CONN	1958-60	12	10	17	10	19	23	31	19	32	3	15	32	10	15	18	10	7	5	3	2	1	31	5	38	1	78
	1961-63	22	10	30	14	24	24	34	24	30	17	14	24	6	10	13	6	6	2	5	3	1	26	7	40	3	108
	1964-66	15	5	16	23	34	36	17	11	27	26	28	26	11	18	12	8	5	5	3	2	1	17	11	48	3	120
MICHIGAN STATE UNIVERSITY	1958-60	30	45	27	36	22	2	18	22	18	6	21	18	28	18	10	49	70	41	57	27	34	25	27	25	28	11
	1961-63	44	41	30	47	29	2	19	16	11	17	13	10	24	7	15	26	52	66	46	33	30	13	29	8	33	7
	1964-66	35	44	14	44	22	1	30	20	14	14	9	6	17	4	7	29	54	28	37	39	45	5	14	6	32	4
CALIF, UNIV OF, LOS ANGELES	1958-60	5	15	12	4	27	24	51	18	21	23	4	12	10	27	32	22	15	24	10	27	34	31	21	21	28	20
	1961-63	10	14	27	19	27	35	46	9	12	36	3	14	4	17	39	26	20	29	10	23	30	30	29	12	33	18
	1964-66	9	24	23	10	29	48	15	9	17	26	4	13	4	18	37	24	11	19	9	39	24	30	12	8	32	14
TEXAS, UNIVERSITY OF	1958-60	23	23	14	19	22	51	22	23	17	23	8	8	28	41	26	19	8	12	13	27	34	31	38	6	28	28
	1961-63	13	28	14	12	19	48	56	18	16	17	5	8	29	25	35	26	21	7	6	33	20	36	25	3	33	29
	1964-66	12	18	11	16	10	57	70	36	13	14	2	18	30	26	23	37	17	13	8	17	24	36	32	6	32	19
COLUMBIA UNIV TEACH COLL N Y	1958-60	77	81	116	57	76	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	23	1
	1961-63	88	98	136	63	86	48	79	117	118	55	92	104	29	63	84	71	85	79	66	33	53	36	42	40	33	1
	1964-66	101	120	148	79	106	57	94	136	126	58	109	117	39	69	93	72	98	96	73	39	64	38	48	48	32	1
PENNSYLVANIA, UNIVERSITY OF	1958-60	19	24	9	57	27	51	7	7	11	43	51	38	4	13	10	13	4	4	6	7	16	31	24	21	23	40
	1961-63	25	31	16	63	24	48	24	26	15	36	17	33	7	14	10	21	9	5	9	4	20	36	29	35	33	49
	1964-66	43	18	10	79	18	57	27	27	43	58	41	46	7	40	6	15	8	4	12	4	10	38	22	38	32	58
IOWA, UNIVERSITY OF	1958-60	50	54	19	36	31	51	8	12	32	43	7	18	28	27	44	34	34	13	27	27	31	2	1	16	16	10
	1961-63	41	51	29	29	44	48	5	13	49	55	10	16	29	25	26	37	36	15	24	33	36	1	1	22	16	14
	1964-66	32	50	27	24	39	57	6	40	63	26	31	11	39	17	52	39	13	18	29	26	24	4	2	31	11	13
PENNSYLVANIA STATE UNIV	1958-60	64	27	19	2	18	18	60	28	32	43	60	13	28	13	35	38	53	61	38	27	48	16	38	38	28	8
	1961-63	41	16	9	5	22	14	79	21	21	55	42	19	29	30	44	45	74	47	46	33	48	23	42	37	33	6
	1964-66	35	12	8	2	26	18	94	30	21	58	36	41	39	35	29	49	61	43	55	39	21	30	48	41	32	8
SOUTHERN CALIF, UNIVERSITY OF	1958-60	50	59	56	33	50	51	24	11	35	43	29	15	28	9	23	7	20	30	17	14	22	6	7	25	6	4
	1961-63	59	68	69	36	52	48	67	61	39	55	70	24	29	10	19	9	32	26	17	33	36	11	9	19	18	5
	1964-66	78	90	100	34	52	57	61	52	58	11	55	20	39	29	22	18	28	23	17	26	7	12	2	14	20	5
NORTHWESTERN UNIVERSITY ILL	1958-60	42	31	24	25	16	51	28	31	45	43	51	29	14	32	32	26	25	18	38	14	16	1	10	11	18	35
	1961-63	59	44	21	25	12	48	16	34	50	17	92	16	9	34	32	18	14	29	30	20	20	3	10	23	16	42
	1964-66	58	53	27	41	8	57	41	33	36	26	62	27	12	18	44	16	22	13	25	32	21	1	14	20	14	45

TABLE 3

(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
IOWA STATE UNIV	1958-60	15	39	7	45	14	4	10	25	9	43	25	88	28	32	9	59	76	76	57	27	48	31	38	38	28	73
OF SCI & TECH	1961-63	14	26	6	31	11	4	24	10	10	36	27	104	29	30	7	71	85	79	66	33	53	36	42	40	33	89
	1964-66	17	37	7	53	7	3	34	14	10	26	21	110	39	29	10	72	98	96	73	39	64	38	48	48	32	81
WASHINGTON,	1958-60	14	29	14	11	39	29	14	26	40	43	38	15	23	15	26	19	25	11	15	14	10	24	38	13	28	45
UNIV OF, WASH	1961-63	23	23	11	12	31	24	16	26	42	17	38	31	17	17	39	23	15	13	18	23	36	23	35	13	33	71
	1964-66	26	31	17	12	31	33	20	12	26	7	25	16	12	12	40	37	22	8	14	25	45	20	26	3	32	69
PRINCETON	1958-60	7	7	31	8	22	51	60	36	83	43	60	46	16	21	12	8	16	15	20	7	8	31	10	38	18	101
UNIVERSITY	1961-63	4	6	21	9	16	48	79	78	83	36	60	33	24	34	19	5	7	17	13	2	13	36	17	40	9	108
	1964-66	11	7	21	19	16	57	94	59	78	26	75	32	30	18	20	11	13	19	21	8	11	38	6	48	13	120
PITTSBURGH,	1958-60	35	33	44	51	34	51	14	36	61	23	66	26	28	32	20	31	44	35	27	27	34	20	38	25	21	18
UNIVERSITY OF	1961-63	12	34	40	56	21	48	7	36	34	9	42	33	29	34	26	56	52	18	30	15	36	12	42	21	24	25
	1964-66	30	39	30	41	44	57	8	16	27	26	75	41	17	52	40	34	61	29	37	32	33	20	32	34	16	28
MARYLAND,	1958-60	20	16	29	57	34	10	22	46	14	43	21	35	28	27	62	29	47	35	33	27	48	31	38	30	28	31
UNIVERSITY OF	1961-63	25	20	35	63	39	12	21	50	13	55	27	55	29	42	49	32	40	47	26	33	53	36	42	40	33	37
	1964-66	26	12	44	79	41	19	30	22	10	58	43	68	39	26	47	24	42	39	33	39	45	38	48	48	32	31
NORTH CAROLINA,	1958-60	17	47	49	42	76	51	28	54	57	43	21	43	28	17	35	26	16	19	7	4	34	31	19	21	28	45
UNIVERSITY OF	1961-63	16	53	27	41	71	48	27	45	59	36	35	33	19	13	18	25	15	19	10	12	48	36	14	28	33	42
	1964-66	17	37	38	49	98	57	6	31	52	58	52	25	25	11	58	9	12	15	11	14	33	38	25	26	32	58
RUTGERS, THE	1958-60	50	43	22	42	50	8	35	9	6	6	11	73	28	61	48	29	76	54	57	27	48	31	38	38	28	35
STATE U, N J	1961-63	55	53	20	47	52	10	46	15	8	36	20	67	29	63	52	32	48	63	54	33	53	36	42	40	33	54
	1964-66	30	51	20	53	61	13	80	16	6	3	6	64	39	69	37	52	56	56	37	39	64	38	48	48	32	27
FLORIDA,	1958-60	27	66	36	57	42	17	12	42	83	9	32	29	28	47	30	38	37	17	48	27	48	11	38	25	23	40
UNIVERSITY OF	1961-63	32	53	18	56	34	17	34	56	74	8	20	51	29	55	32	37	22	34	42	33	53	26	42	20	33	31
	1964-66	61	36	30	79	22	20	30	58	25	58	36	19	39	52	35	34	58	37	55	39	64	23	48	31	32	38
BOSTON	1958-60	58	75	81	30	76	51	60	31	83	23	66	15	28	41	73	34	25	30	26	27	15	31	6	38	2	11
UNIVERSITY	1961-63	66	79	80	34	86	48	56	45	59	55	78	12	29	25	59	45	19	21	26	33	9	36	10	40	1	12
	1964-66	78	71	102	59	106	57	36	47	58	26	86	17	39	29	84	64	38	46	60	32	6	38	9	48	2	31
MISSOURI, UNIV	1958-60	58	45	53	25	41	16	51	51	52	43	38	56	28	27	48	49	37	35	38	27	48	11	38	30	28	16
OF, COLUMBIA	1961-63	38	48	56	36	50	15	56	28	30	55	42	57	29	30	26	37	22	47	36	33	53	23	42	37	33	21
	1964-66	68	57	61	26	49	9	70	22	36	26	25	52	39	12	30	44	38	50	37	39	64	18	48	36	32	23
JOHNS HOPKINS	1958-60	64	13	70	17	22	51	10	16	21	9	29	55	20	61	24	16	23	26	33	2	22	28	27	38	16	82
UNIVERSITY MD	1961-63	59	18	43	19	22	48	21	19	27	36	60	63	29	55	26	26	29	33	19	7	8	36	42	40	33	93
	1964-66	45	20	55	37	33	57	10	9	16	26	86	72	30	60	44	31	29	50	18	6	33	38	18	48	32	104
COLORADO,	1958-60	45	36	39	30	44	51	35	51	40	16	38	58	28	32	38	43	47	35	27	27	44	31	29	38	28	33
UNIVERSITY OF	1961-63	32	20	37	19	52	48	46	67	65	36	33	44	29	34	26	37	41	40	30	23	53	36	42	40	33	27
	1964-66	22	14	30	19	50	57	61	59	78	58	31	23	17	29	24	31	17	29	25	39	55	38	37	24	32	41
DUKE UNIVERSITY	1958-60	35	27	46	57	76	28	60	36	40	2	12	40	28	32	29	26	25	32	48	27	22	31	38	38	10	63
N CAR	1961-63	25	28	47	63	80	32	56	32	59	5	14	41	29	34	22	21	13	24	42	33	27	36	42	40	6	61
	1964-66	53	30	42	79	72	25	80	26	48	19	12	52	39	46	26	20	7	15	47	39	24	38	48	48	9	63
CATHOLIC UNIV	1958-60	30	29	56	57	71	51	84	76	45	16	26	46	23	21	73	59	22	32	23	14	6	31	29	38	3	48
OF AMERICA D C	1961-63	49	25	63	63	65	48	79	85	34	17	33	51	19	17	52	56	22	40	24	5	6	36	19	40	2	44
	1964-66	61	32	84	79	62	57	94	70	44	58	55	34	16	14	73	52	34	46	33	10	7	38	14	48	4	50
SYRACUSE	1958-60	58	26	70	51	33	51	84	63	35	23	47	43	12	47	22	16	37	41	43	27	31	23	38	30	28	27
UNIVERSITY	1961-63	55	44	98	63	40	48	79	85	42	55	47	41	19	47	39	8	36	34	30	23	53	30	37	40	33	39
	1964-66	49	33	71	71	39	57	94	113	36	26	96	36	25	33	30	13	26	59	42	39	50	38	40	42	28	38
KANSAS,	1958-60	45	54	23	30	54	41	60	59	16	23	32	27	28	47	73	49	53	26	27	27	48	31	38	38	28	38
UNIVERSITY OF	1961-63	49	51	23	17	57	48	46	74	23	55	27	57	29	63	66	48	66	43	26	33	53	36	37	40	33	26
	1964-66	45	63	18	41	46	57	47	70	24	58	7	46	39	64	73	42	48	50	29	39	64	15	48	48	32	48
NEBRASKA,	1958-60	77	74	56	45	76	22	35	76	52	23	26	51	28	41	38	59	30	70	57	27	22	31	38	38	28	21
UNIVERSITY OF	1961-63	49	63	60	41	80	27	46	50	48	55	35	60	29	34	59	48	45	47	40	33	20	36	42	23	33	19
	1964-66	64	74	50	71	89	24	47	74	52	58	48	55	39	46	47	44	48	43	66	39	42	38	48	28	32	16
LA STATE UNIV &	1958-60	50	47	62	20	48	11	35	68	45	43	38	51	28	18	38	59	47	70	48	27	48	20	38	15	28	55
AG & MECH COLL	1961-63	44	43	56	28	48	13	79	61	30	55	27	26	29	25	24	71	56	39	26	33	53	18	42	11	33	68
	1964-66	43	59	48	34	84	10	80	83	36	58	43	55	39	40	47	64	58	53	27	39	64	16	48	18	32	63
OKLAHOMA,	1958-60	64	63	85	36	66	51	31	31	40	43	21	51	28	61	44	49	34	48	57	27	48	31	38	38	28	23
UNIVERSITY OF	1961-63	78	68	77	23	42	48	56	34	59	9	27	65	29	63	52	37	31	47	66	33	53	17	42	40	33	29
	1964-66	85	77	71	31	35	57	20	38	74	19	17	43	39	69	52	29	31	34	47	39	64	14	48	42	32	25
CALIFORNIA INST	1958-60	30	11	35	16	10	51	84	35	45	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
OF TECHNOLOGY	1961-63	49	4	25	15	14	48	79	42	55	55	92	95	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	21	10	37	21	12	57	94	44	99	58	109	105	39	69	93	72	98	96	73	39	64	38	48	48	32	120
FLORIDA STATE	1958-60	77	66	56	33	76	51	60	63	83	23	29	36	28	24	73	49	70	41	48	27	48	25	15	38	28	39
UNIVERSITY	1961-63	78	40	52	47	86	48	79	50	65	55	38	23	29	55	84	62	74	34	40	33	41	34	14	40	33	23
	1964-66	49	67	57	26	106	57	94	64	99	26	68	23	39	8	93	44	40	55	43	39	64	35	18	48	32	22
ROCHESTER,	1958-60	50	16	24	57	60	51	24	21	37	43	38	22	28	55	73	59	37	48	57	27	48	31	1	38	28	99
UNIVERSITY OF	1961-63	66	15	38	63	65	48	30	21	55	55	64	30	29	63	57	71	41	34	66	33	41	36	3	40	33	98
	1964-66	66	23	54	49	63	57	36	31	36	58	28	48	39	69	68	72	29	34	73	39	33	38	6	48	32	91
WAYNE STATE	1958-60	64	63	30	57	76	51	84	46	68	43	84	68	28	41	73	59	76	61	57	27	48	15	38	38	28	22
UNIV MICH	1961-63	71	63	35	63	74	48	79	28	74	55	92	31	29	42	84	71	59	47	46	33	53	13	42	40	33	22
	1964-66	49	90	38	79	78	57	94	52	58	58	86	30	39	56	40	72	84	39	55	39	64	8	48	48	32	18
OREGON,	1958-60	27	66	97	57	76	51	84	28	102	16	84	62	16	47	32	38	53	48	43	27	48	31	38	38	28	24
UNIVERSITY OF	1961-63	32	83	80	56	86	48	67	38	83	55	64	60	11	25	43	45	48	71	46	33	53	30	42	29	33	23
	1964-66	32	74	71	59	106	57	70	44	90	19	62	48	12	18	52	34	34	46	47	39	64	30	48	28	32	11
UTAH,	1958-60	73	41	48	14	32	51	35	59	27	43	51	48	28	47	73	34	76	68	48	27	48	16	24	38	28	63
UNIVERSITY OF	1961-63	55	41	44	24	30	48	24	61	19	17	47	46	24	52	84	56	59	63	54	33	53	30	29	40	33	65
	1964-66	35	71	42	22	37	57	41	70	30	26	55	39	25	60	73	64	84	62	60	26	50	30	40	42	32	51

TABLE 3

(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
WESTERN RESERVE UNIV OHIO	1958-60	73	81	44	57	76	51	84	46	40	43	76	21	28	61	73	59	30	35	27	27	48	19	35	38	28	49
	1961-63	83	83	65	63	86	48	34	67	50	55	64	15	29	52	59	48	39	34	30	33	53	19	22	40	33	34
	1964-66	68	90	67	71	106	57	47	44	35	58	68	27	39	69	47	64	22	33	43	39	64	29	48	48	19	30
OKLAHOMA ST U OF AG & AP SCI	1958-60	50	81	70	57	37	27	44	86	37	43	35	88	28	61	48	59	76	76	57	27	48	31	38	38	28	45
	1961-63	20	89	80	63	36	19	79	61	50	36	25	78	29	63	37	71	85	79	66	33	53	36	42	40	33	46
	1964-66	35	59	80	79	20	16	61	59	32	11	13	86	39	69	24	72	98	96	73	39	64	38	48	48	32	34
CARNEGIE INST OF TECH PA	1958-60	24	18	36	57	7	51	84	99	102	43	84	75	28	61	51	59	76	76	57	27	48	31	38	19	28	101
	1961-63	31	19	32	63	8	48	79	117	118	55	92	78	29	63	46	71	85	79	66	33	53	36	42	23	33	108
	1964-66	39	29	38	79	11	57	94	136	126	58	109	99	39	69	52	72	98	96	73	39	64	28	48	31	32	120
OREGON STATE UNIV OREG	1958-60	45	66	46	57	60	14	84	51	15	23	26	88	28	55	62	59	76	76	57	27	48	31	38	38	28	66
	1961-63	32	76	40	47	65	9	79	42	21	3	20	104	29	63	35	71	85	79	66	33	53	36	42	40	33	81
	1964-66	39	67	34	29	59	10	41	36	9	7	18	117	39	64	63	72	98	96	73	39	64	38	48	48	32	72
FORDHAM UNIVERSITY N Y	1958-60	77	52	66	57	76	51	84	23	52	43	32	20	28	32	44	31	16	21	27	21	4	31	38	38	28	52
	1961-63	88	76	56	63	86	48	79	45	42	55	47	19	29	47	52	48	32	15	36	8	5	36	42	40	33	40
	1964-66	101	90	57	79	106	57	94	100	78	26	86	48	39	35	58	64	56	26	43	9	7	38	48	48	32	56
TENNESSEE, UNIVERSITY OF	1958-60	50	47	36	45	60	51	51	36	45	9	60	48	28	61	73	49	76	41	57	27	48	31	38	38	28	34
	1961-63	55	36	60	63	61	48	46	56	37	17	25	48	29	52	84	62	85	55	66	33	48	36	42	40	33	36
	1964-66	61	52	50	63	55	43	30	33	63	26	21	55	39	40	73	72	76	55	73	39	64	38	48	48	32	42
BROWN UNIVERSITY R I	1958-60	9	36	49	57	50	51	60	86	61	43	47	62	23	41	62	59	37	25	22	27	13	31	38	38	28	101
	1961-63	18	28	47	63	50	48	67	56	42	55	70	51	29	47	48	56	36	27	19	20	15	36	42	40	22	108
	1964-66	13	25	44	53	51	53	94	94	27	58	68	60	39	35	47	44	61	41	33	39	33	38	48	48	23	120
COLORADO STATE COLLEGE	1958-60	77	81	116	57	76	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	28	18
	1961-63	88	98	136	63	86	48	79	117	118	55	92	104	29	63	84	71	85	79	66	33	53	36	42	40	33	4
	1964-66	101	120	148	79	106	57	94	136	126	58	109	105	39	69	93	72	98	96	73	39	64	38	48	48	32	3
TEXAS A & M UNIVERSITY	1958-60	73	59	77	20	44	15	18	28	23	23	66	88	28	61	55	59	76	76	57	27	48	31	38	38	28	101
	1961-63	88	75	80	15	37	20	79	19	30	9	51	104	29	63	49	71	85	79	66	33	53	36	42	40	33	108
	1964-66	92	41	55	16	25	14	41	16	32	19	51	117	39	69	44	72	98	96	73	39	64	38	48	48	32	100
VIRGINIA, UNIVERSITY OF	1958-60	35	21	49	57	66	51	84	99	68	43	60	71	28	61	26	43	23	48	43	27	22	28	38	38	28	43
	1961-63	59	22	52	63	59	48	79	95	83	55	42	84	29	63	22	23	22	55	54	23	27	36	42	40	33	56
	1964-66	53	41	71	79	69	57	80	100	78	58	75	93	39	69	27	16	31	34	55	39	45	38	48	48	32	55
CONNECTICUT, UNIVERSITY OF	1958-60	77	54	39	57	76	51	14	76	45	43	51	36	28	55	62	59	76	76	57	27	48	31	38	30	28	26
	1961-63	88	48	74	63	68	46	12	95	50	36	92	39	29	63	66	62	85	66	66	33	53	36	42	40	33	33
	1964-66	101	63	78	79	55	44	23	56	48	58	86	38	39	56	73	72	98	25	31	39	64	38	40	48	32	33
CALIF, UNIV OF, DAVIS	1958-60	77	81	62	57	76	20	14	9	11	43	51	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	88	98	65	56	61	24	14	7	8	36	20	104	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	82	105	50	79	67	14	15	7	2	14	20	117	39	69	93	72	98	62	73	39	64	38	48	48	32	120
NOTRE DAME, UNIV OF, IND	1958-60	35	33	19	57	54	41	84	76	102	43	84	88	28	32	55	31	37	40	57	27	10	31	38	38	28	86
	1961-63	25	36	33	63	57	48	79	78	74	36	60	104	29	22	52	62	56	23	66	33	10	36	42	40	33	75
	1964-66	26	40	21	79	55	57	80	83	48	26	96	117	39	46	73	59	40	26	73	39	4	38	48	48	32	109
WASHINGTON UNIVERSITY MO	1958-60	64	36	70	45	37	51	60	68	61	43	35	48	20	47	73	59	76	54	43	21	44	31	29	38	28	71
	1961-63	83	38	69	31	33	48	79	95	83	55	17	65	29	42	74	32	74	45	36	33	53	36	29	29	33	72
	1964-66	45	48	86	37	47	57	55	74	90	58	41	34	39	46	67	49	84	62	47	39	50	38	29	25	32	81
N C STATE UNIV AT RALEIGH	1958-60	30	75	107	57	42	12	44	31	20	23	51	88	28	61	30	59	76	76	57	27	48	31	38	38	28	101
	1961-63	32	58	109	63	40	11	79	45	19	36	70	104	29	55	26	71	85	79	66	33	53	36	42	40	33	108
	1964-66	24	77	139	71	30	8	94	47	15	14	55	117	39	69	20	72	98	96	73	39	64	38	48	48	32	120
WASHINGTON STATE UNIV	1958-60	77	66	85	51	76	13	60	76	29	23	38	59	28	24	73	59	76	76	57	27	48	31	38	38	28	53
	1961-63	71	76	80	63	86	16	34	78	39	55	38	50	29	30	74	71	59	79	66	33	53	36	42	40	33	51
	1964-66	68	71	50	53	102	22	27	94	30	26	31	72	39	40	68	72	76	81	73	39	64	38	48	48	32	43
VANDERBILT UNIV TENN	1958-60	64	33	55	57	76	51	60	63	83	43	66	62	28	47	38	49	29	19	57	27	48	31	38	38	9	101
	1961-63	83	63	50	63	80	48	56	61	65	55	64	33	29	42	49	62	41	32	46	33	53	36	42	40	8	108
	1964-66	74	35	71	79	67	57	55	52	90	58	62	43	39	56	36	42	48	29	55	26	16	38	48	48	7	120
TEMPLE UNIVERSITY PA	1958-60	77	47	84	57	76	51	44	68	83	43	84	43	28	61	73	59	76	76	57	27	48	31	38	38	7	30
	1961-63	88	53	52	63	86	48	34	85	98	55	92	46	29	63	84	71	85	79	66	33	53	36	42	40	12	37
	1964-66	101	63	71	79	106	57	25	83	90	58	109	48	39	69	93	72	98	74	73	39	64	38	48	48	18	21
TULANE UNIV OF LOUISIANA	1958-60	45	81	56	57	76	51	35	59	29	43	38	73	28	47	62	49	53	41	23	27	34	31	38	38	28	101
	1961-63	32	98	77	63	86	48	10	38	42	55	38	81	29	55	59	37	29	31	30	33	30	29	42	40	33	108
	1964-66	49	84	78	71	74	57	17	33	32	58	36	79	17	52	30	49	45	23	23	32	24	23	37	48	32	120
POLYTECH INST OF BROOKLYN	1958-60	77	54	16	57	15	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	88	63	12	63	15	48	79	117	118	55	92	104	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	68	47	9	79	26	57	94	136	126	58	109	117	39	69	93	72	98	96	73	39	64	38	48	48	32	120
ARIZONA, UNIVERSITY OF	1958-60	77	81	107	20	66	36	84	54	102	16	76	77	7	61	73	59	76	76	57	27	48	31	38	38	28	71
	1961-63	71	85	80	17	59	41	79	38	83	17	27	72	9	63	84	71	74	79	54	33	53	36	37	40	33	65
	1964-66	45	56	65	11	44	25	70	67	68	58	25	55	8	69	85	57	72	69	60	39	64	38	32	48	32	61
ST LOUIS UNIVERSITY	1958-60	27	52	62	45	76	51	84	54	68	43	35	88	28	41	55	34	30	41	57	9	4	31	38	16	28	59
	1961-63	41	47	77	41	86	48	46	28	74	55	92	91	29	17	74	48	32	63	66	15	4	36	42	35	33	58
	1964-66	78	84	121	26	106	57	36	47	99	58	96	72	39	35	85	59	19	62	37	10	16	38	48	34	32	81
BUFFALO, SUNY AT	1958-60	58	59	77	57	76	51	31	42	68	43	66	40	28	61	73	59	76	70	57	27	34	31	38	25	28	49
	1961-63	44	85	63	63	86	48	67	78	74	55	92	41	29	47	74	71	74	71	54	33	20	36	42	40	29	44
	1964-66	96	59	46	79	72	57	47	38	44	58	86	36	25	46	79	72	69	59	47	39	33	38	48	38	32	49
DENVER, UNIVERSITY OF	1958-60	77	81	116	57	76	51	84	99	102	43	84	9	28	61	73	59	76	26	57	27	48	7	14	38	28	37
	1961-63	88	98	136	63	86	48	79	117	118	55	92	28	29	63	84	62	85	24	66	33	53	9	19	40	33	47
	1964-66	101	101	148	79	82	57	94	136	126	58	109	60	39	69	93	31	54	37	73	39	64	5	48	48	32	53
RENSSELAER POLY INST N Y	1958-60	64	54	33	51	20	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	59	44	34	39	16	48	79	117	118	55	92	104	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	53	22	46	59	19	57	94	136	126	58	109	117	39	69	93	72	98	96	73	39	64	38	48	38	32	120

TABLE 3

(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
CASE INSTITUTE OF TECH OHIO	1958-60	35	31	39	57	26	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	20	27	60	63	18	48	79	117	118	55	92	104	29	63	84	71	85	79	66	33	53	36	42	37	33	108
	1964-66	32	28	69	79	21	57	94	136	126	58	109	105	39	64	85	72	90	96	73	39	64	38	48	48	32	120
CINCINNATI, UNIVERSITY OF	1958-60	45	59	53	36	66	51	28	68	102	43	51	77	28	61	51	43	76	54	38	27	48	31	38	38	28	83
	1961-63	44	58	39	63	48	48	6	74	55	36	70	78	24	63	57	71	85	55	42	23	41	36	42	40	33	83
	1964-66	53	53	33	37	64	57	20	83	63	58	75	88	30	69	68	72	84	81	43	10	50	38	48	48	32	75
GEO PEABODY COL FOR TEACH TENN	1958-60	58	81	116	57	76	51	84	99	102	43	84	56	28	61	73	59	53	70	57	27	48	31	29	38	28	14
	1961-63	78	98	136	63	86	48	79	117	118	55	92	60	29	63	84	71	74	55	54	33	53	36	25	40	33	16
	1964-66	85	120	148	79	106	57	94	136	126	58	109	65	39	69	93	72	68	62	73	39	64	38	37	48	32	25
KANSAS ST UNIV OF AG & AP SCI	1958-60	77	72	62	57	76	24	35	68	9	43	47	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	88	79	46	63	68	21	34	56	14	55	51	95	29	63	66	71	85	79	66	33	53	36	42	40	33	108
	1964-66	101	77	34	79	59	16	47	67	19	26	62	93	39	69	63	72	98	90	73	39	64	38	48	48	32	120
GEORGETOWN UNIVERSITY D C	1958-60	77	75	91	57	76	51	24	8	83	43	84	88	28	61	38	9	11	76	57	27	16	31	38	38	28	101
	1961-63	88	58	91	63	86	48	21	56	98	55	92	104	29	63	39	13	22	79	66	33	30	36	42	40	33	108
	1964-66	92	63	95	79	106	57	47	40	74	58	109	117	39	69	37	20	19	96	16	39	42	38	48	48	32	120
KENTUCKY, UNIVERSITY OF	1958-60	58	75	49	57	66	33	84	99	57	43	84	39	28	32	51	38	46	61	48	27	48	31	38	38	28	53
	1961-63	59	68	98	63	80	30	79	117	59	55	78	57	29	47	46	48	48	55	66	33	53	36	42	40	33	65
	1964-66	85	77	121	79	106	33	94	74	99	58	96	52	39	40	33	39	48	62	73	39	64	38	48	48	32	67
RICE UNIVERSITY TEX	1958-60	42	18	66	25	48	51	84	59	68	43	76	88	28	61	73	59	70	61	33	27	48	31	38	38	28	101
	1961-63	49	38	91	25	44	48	79	108	83	55	92	104	29	63	66	71	66	43	54	33	53	36	42	40	33	108
	1964-66	66	33	61	12	38	57	94	78	99	58	75	110	39	69	68	72	58	69	33	39	45	38	48	48	32	120
AMERICAN UNIVERSITY D C	1958-60	64	81	116	57	76	51	84	99	102	43	84	68	28	21	21	4	37	76	57	27	48	31	38	38	28	78
	1961-63	78	98	136	63	86	48	79	117	118	55	92	51	29	42	37	7	45	79	66	33	53	36	42	29	33	83
	1964-66	92	120	148	79	106	57	94	136	126	58	109	68	39	35	27	3	43	96	73	39	64	38	48	26	32	86
ARKANSAS, UNIVERSITY OF	1958-60	77	81	81	57	76	51	51	99	102	43	84	88	28	61	55	59	76	54	57	27	48	31	38	38	28	43
	1961-63	88	98	74	63	86	48	79	85	118	55	92	95	29	63	32	71	85	47	54	33	53	36	42	26	33	32
	1964-66	101	90	65	79	79	53	94	113	90	58	109	87	39	69	68	72	98	41	66	39	55	38	48	12	32	35
ILLINOIS INST OF TECHNOLOGY	1958-60	35	47	56	57	16	51	84	68	68	43	84	59	28	61	62	59	76	76	57	27	48	31	38	38	28	101
	1961-63	49	58	65	63	26	48	79	67	118	55	92	67	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	42	59	57	79	35	57	94	78	116	58	109	72	39	69	93	72	98	96	73	39	64	38	48	42	32	120
ALABAMA, UNIVERSITY OF	1958-60	77	66	88	57	76	51	60	54	102	43	38	88	28	61	62	59	76	70	57	27	48	31	38	14	28	59
	1961-63	71	68	102	63	86	48	67	67	74	17	56	71	29	63	74	32	48	66	66	33	53	36	42	14	33	56
	1964-66	78	67	121	79	84	57	94	78	107	58	86	68	39	69	58	64	45	81	60	39	64	38	48	16	32	47
GEORGIA, UNIVERSITY OF	1958-60	64	81	116	57	76	41	84	99	83	3	47	85	28	61	73	59	70	54	57	27	48	31	38	38	28	66
	1961-63	66	98	124	63	86	28	79	108	65	9	56	87	29	63	84	71	41	66	66	33	53	36	42	40	33	62
	1964-66	64	105	97	79	106	33	94	83	58	7	21	60	39	69	85	64	31	74	66	39	64	38	48	48	32	37
GEO WASHINGTON UNIVERSITY D C	1958-60	35	81	107	57	76	51	35	36	29	43	60	68	28	61	51	43	64	70	38	27	48	31	38	19	28	73
	1961-63	78	98	127	63	80	48	34	36	42	55	70	72	29	63	66	48	66	79	66	33	53	36	42	29	33	70
	1964-66	85	105	118	79	89	53	47	64	54	58	96	79	39	69	58	44	69	74	66	39	64	38	48	22	32	63
DELAWARE, UNIVERSITY OF	1958-60	77	81	26	57	39	51	84	99	68	23	66	88	28	61	73	59	76	76	57	27	48	31	38	38	28	101
	1961-63	83	98	40	63	47	48	79	61	98	55	56	87	29	63	84	71	85	79	66	33	53	36	42	40	33	105
	1964-66	101	96	24	79	42	57	80	94	99	58	52	83	39	69	93	72	72	81	73	39	64	38	48	48	32	114
LEHIGH UNIVERSITY PA	1958-60	50	43	75	42	29	51	60	99	68	43	84	88	28	61	73	59	76	68	57	27	48	31	38	38	28	101
	1961-63	59	48	72	41	35	48	79	117	65	17	92	95	29	63	84	71	74	71	66	33	53	36	42	40	33	108
	1964-66	68	67	84	45	32	57	94	113	107	26	109	110	39	69	93	72	76	81	73	39	64	38	48	48	32	102
VIRGINIA POLY-TECHNIC INST	1958-60	20	81	90	33	44	39	84	76	68	23	66	88	28	61	55	59	76	76	57	27	48	31	38	38	28	101
	1961-63	25	68	102	56	46	32	79	50	74	36	78	104	29	63	66	71	85	79	66	33	53	36	42	40	33	108
	1964-66	26	84	97	45	42	29	94	52	68	58	55	117	39	69	93	72	98	96	73	39	64	38	48	48	32	120
LOYOLA UNIVERSITY ILL	1958-60	77	81	101	57	76	51	44	54	83	43	84	40	28	61	73	59	53	61	57	27	48	31	38	38	28	57
	1961-63	88	98	91	63	86	48	27	50	55	55	92	33	29	63	84	71	74	66	66	33	53	36	42	40	33	54
	1964-66	101	120	102	79	106	57	55	70	90	58	109	39	39	46	93	72	61	43	73	39	64	38	48	48	32	75
HOUSTON, UNIVERSITY OF	1958-60	77	81	116	57	76	51	84	99	102	43	84	24	28	61	73	59	76	76	57	27	48	31	38	38	28	49
	1961-63	88	98	113	63	86	48	79	95	118	55	92	27	29	63	74	71	85	79	66	33	53	36	42	40	33	51
	1964-66	101	120	111	79	69	57	94	124	116	58	109	22	39	69	79	72	98	96	73	39	64	38	48	48	32	54
NEW MEXICO, UNIVERSITY OF	1958-60	77	75	77	57	76	51	84	76	102	43	76	88	16	61	73	59	47	34	33	27	48	31	38	38	28	96
	1961-63	71	68	74	47	52	48	79	117	118	55	70	95	17	63	84	71	32	45	46	33	53	36	42	40	33	78
	1964-66	73	77	102	45	53	57	94	124	126	58	75	105	39	69	93	72	34	56	60	39	64	38	48	48	32	71
EMORY UNIVERSITY GA	1958-60	77	81	85	57	76	51	60	63	52	23	38	81	28	61	73	43	44	54	57	27	34	31	38	30	23	101
	1961-63	88	98	89	63	86	48	67	67	25	17	70	75	29	34	84	32	52	55	54	33	11	36	42	40	13	108
	1964-66	101	120	97	79	106	57	61	78	54	26	75	97	39	52	93	52	45	62	47	39	14	38	40	48	11	120
BRANDEIS UNIV MASS	1958-60	77	72	116	57	76	51	84	76	83	43	84	71	28	61	73	59	64	61	57	11	48	31	38	38	28	101
	1961-63	71	53	98	63	86	48	79	42	65	55	78	84	29	63	84	71	59	55	46	8	41	36	35	40	24	108
	1964-66	53	41	95	79	106	57	94	47	78	58	109	83	23	60	93	72	61	69	73	14	32	38	40	48	32	120
YESHIVA UNIVERSITY N Y	1958-60	77	81	116	57	76	51	84	99	102	43	84	32	28	55	73	59	70	76	43	14	48	31	38	38	14	63
	1961-63	71	98	136	63	86	48	46	95	118	55	92	55	29	63	74	71	59	79	66	23	53	36	42	40	20	64
	1964-66	58	101	148	79	106	57	80	106	99	58	55	14	39	69	93	72	61	90	73	26	55	38	48	48	23	91
WYOMING, UNIVERSITY OF	1958-60	77	81	103	36	76	29	84	99	102	23	84	81	28	61	73	59	76	76	57	27	48	31	38	38	28	55
	1961-63	88	98	113	41	86	37	79	108	118	5	92	91	29	63	84	71	85	79	66	33	53	36	42	40	33	48
	1964-66	101	120	102	34	102	39	94	124	126	26	68	110	39	69	93	72	98	96	73	39	64	38	48	48	32	35
CLAREMONT GRAD & UNIV CEN CAL	1958-60	77	81	116	57	76	51	84	99	68	43	51	62	28	61	55	49	53	48	57	27	48	31	38	38	28	86
	1961-63	88	98	136	63	86	48	79	117	98	55	51	67	29	63	59	31	66	47	66	33	53	36	37	40	22	103
	1964-66	101	120	148	79	106	57	94	136	126	58	62	55	39	69	52	13	48	59	60	39	16	38	48	48	10	75
MASSACHUSETTS, UNIVERSITY OF	1958-60	77	81	75	57	76	39	60	86	52	43	84	59	28	61	55	59	76	76	57	27	48	31	38	38	28	101
	1961-63	88	98	72	63	86	38	79	95	37	55	92	39	29	63	84	71	85	79	66	33	53	36	42	40	33	108
	1964-66	101	120	48	63	106	44	94	83	44	26	36	29	39	60	79	52	90	96	66	39	64	38	48	48	32	120

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Appendix A of this report lists each United States institution that has granted a research doctorate since 1920 and shows the doctoral production of that institution by field for the over-all time period 1920-1966 and for the recent period 1960 - 1966.

In addition to quantitative measures of doctoral output, there has developed a growing demand for some "quality" rating of graduate departments. No universally accepted quality metric has yet been devised, but some studies have been made to develop rating scales. One of the best known was recently reported by Allan Cartter.[6] One part of the Cartter report ranks institutions in each of 29 academic fields on "rated effectiveness of graduate program." The two highest rating groups are titled "Extremely Attractive" and "Attractive." Ten of the Cartter fields were identical in title with the field titles of Table 3 above. The ranks in Table 3 have been compared with the Cartter ranks to determine the degree to which they coincide.

Field Appearing in Both Lists	Number of Doctoral Institutions in Field 1960-66	From Cartter List: Number of Departments Rated Extremely Attractive or Attractive	From Table 3: Largest Doctorate-Granting Institutions, by Field; Matched Number with Cartter List	Number of Institutions in Both Cartter List and Table 3, % Coincidence	
Anthropology	39	11	11	(10 of 11)	91
Mathematics	103	20	20	(16 of 20)	80
Physics	124	19	19	(15 of 19)	79
History	102	19	19	(14 of 19)	74
Chemistry	153	23	23	(15 of 23)	65
Sociology	73	14	14	(9 of 14)	64
Political Science	77	16	16	(10 of 16)	62
Economics	95	15	15	(9 of 15)	60
Psychology	119	23	23	(13 of 23)	56
Philosophy	68	11	11	(5 of 11)	45

The Cartter report rated 11 graduate departments of anthropology as Extremely Attractive or Attractive out of a total of 39 doctorate-granting departments. When compared with the 11 highest-output anthropology institutions from Table 3, 10 appeared on both lists for a 91 percent overlap. In all, 171 institutions were compared in this manner; 116 (68 percent) appeared on both the Cartter list and the selection of top-ranked institutions from Table 3. Of those that were on the Cartter list, but were not rated as highly in Table 3, 71 percent were private institutions; conversely, 62 percent of those in Table 3, but not on Cartter's list, were public institutions.

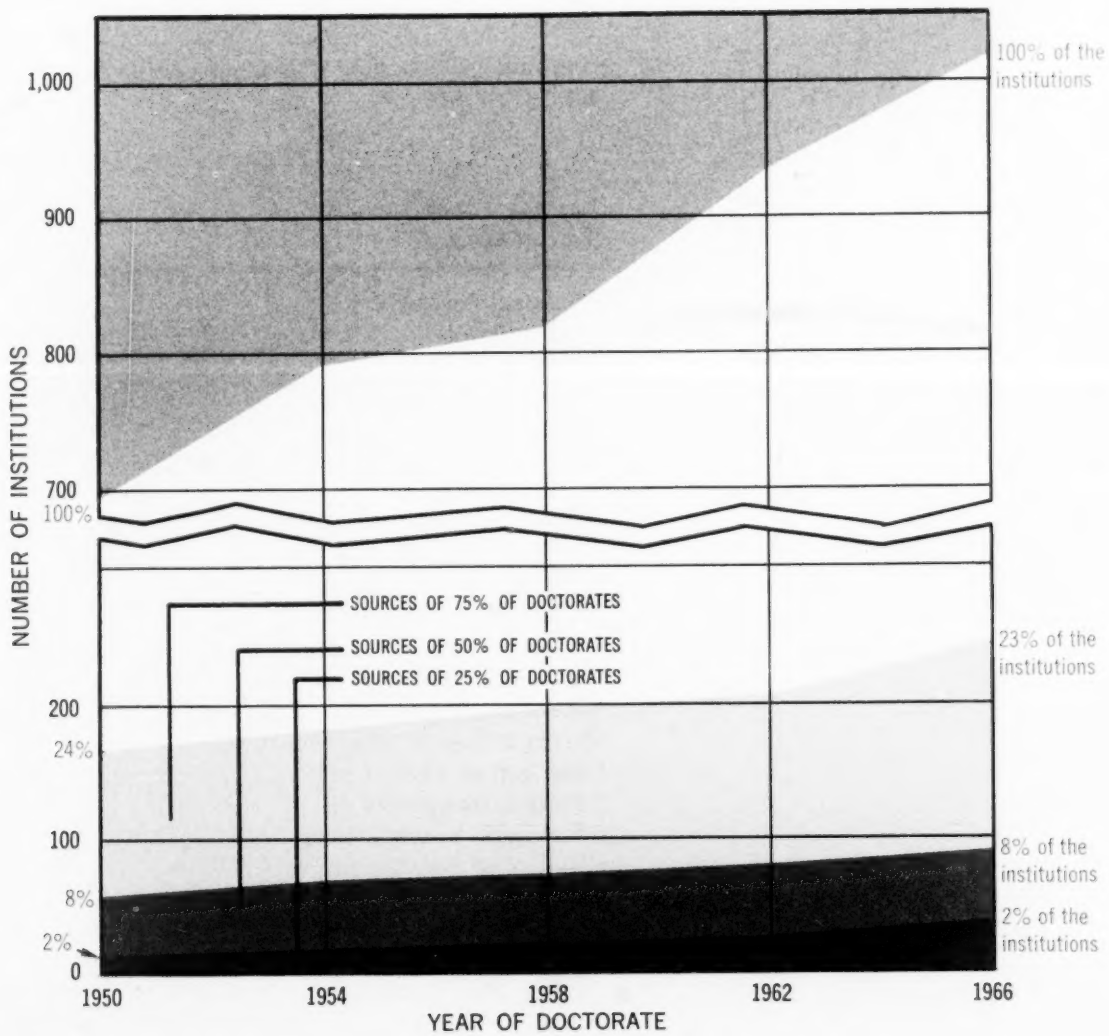
Baccalaureate-Source Institutions

A "baccalaureate-source institution" is one that granted a baccalaureate to one or more persons who later received a research doctorate at either that same institution or a different one.

Figure 5 shows that the number of baccalaureate-source institutions has been increasing rapidly between 1950 and 1966. The trends for the baccalaureate-source institutions (Figure 5) are very similar to those for the doctoral institutions (Figure 4). The total number of source institutions increased about 50 percent during the period, and the number of such institutions that supplied a given percent (25, 50, 75 percent) of all baccalaureates who later achieved doctorates also increased about 50 percent. As a result, the percentage of in-

6. Allan M. Cartter, An Assessment of Quality in Graduate Education, American Council on Education, Washington, D.C. (1966).

FIGURE 5
NUMBER OF U.S. INSTITUTIONS THAT WERE BACCALAUREATE SOURCES OF 25%, 50%, AND 75% OF ALL DOCTORATES, 1950-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data, see p. 32 of NAS-NRC Publication 1142.

stitutions supplying a given percentage of these baccalaureates has remained almost constant. Two percent of the institutions supply 25 percent of the baccalaureates who later receive doctorates; eight percent of the institutions supply 50 percent of the baccalaureates; and twenty-three to twenty-four percent supply 75 percent. As the total number of baccalaureate-source institutions increases, there is a corresponding increase in the number of high-producer centers.

Table 4 lists the leading 100 baccalaureate-source institutions for those persons who received doctorates between FY 1958 and FY 1966. Comparison of Table 4 with Table 3 reveals great overlap. Of the top 30 baccalaureate-source institutions, 24 are also among the top 30 doctorate-granting institutions.

The listing in Table 4 may be compared with a similar listing in the preceding book of this series.[7] Of the top 20 institutions in the 1958-1966 period. 14 were also among the top 20 of the baccalaureate sources for the 1920 - 1929 period. However, the 100 institutions in Table 4 accounted for only 56 percent of the 1958 - 1966 eventual doctorate recipients; the leading 100 institutions of 1920 - 1929 were the baccalaureate sources of 71 percent of the doctorates of that period.

7. NAS-NRC, Publ. 1142, op. cit., p. 31.

TABLE 4

One Hundred Leading Baccalaureate Source Institutions of Doctorate Recipients, FY 1958 - 1966

Leading Baccalaureate Source Institutions	Rank of Institution as Bacc Source	Doctorate Recipients with Bacc from Inst	
		N	%
Alabama, University of	76	282	.29
Amherst College, Mass	78	271	.26
Arizona, University of	88	248	.26
Arkansas, University of	71	307	.32
Auburn University, Ala	87	253	.26
Baylor University, Texas	97	230	.24
Boston University	46	409	.42
Brigham Young Univ, Utah	35	502	.52
Brooklyn College	9	1,233	1.27
Brown University, R.I.	63	349	.36
Buffalo, State Univ of N Y	82	259	.27
California Inst of Tech	42	427	.44
California, Univ of, Berkeley	1	1,837	1.89
California, Univ of, Los Angeles	10	1,227	1.26
Carnegie Inst of Tech, Pa	43	424	.44
Case Inst of Tech, Ohio	83	258	.27
Chicago, University of	13	1,107	1.14
Cincinnati, University of	70	311	.32
City Col of City Univ of N Y	2	1,826	1.88
Colorado State University	79	270	.28
Colorado, University of	38	487	.50
Columbia University, N Y	14	1,012	1.04
Connecticut, University of	65	338	.35
Cornell University	12	1,169	1.20
Dartmouth College, N H	47	399	.41
Denver, University of	94	234	.24
Duke University, N C	64	340	.35
Florida, University of	39	472	.49
Fordham University, N Y	68	320	.33
George Washington Univ, D C	85	254	.26
Georgia Inst of Tech	91	246	.25
Georgia, University of	75	292	.30
Harvard University	4	1,432	1.48
Hunter College, N Y	61	356	.37
Illinois Inst of Tech	92	240	.25
Illinois, University of	3	1,609	1.66
Indiana University	35	502	.52
Iowa State Univ of Sci and Tech	23	678	.70
Iowa, University of	34	514	.53
Johns Hopkins Univ, Md	67	324	.33
Kansas, University of	41	445	.46
Kansas State Univ of Agr and Appl Sci	50	390	.40
Kentucky, University of	66	333	.34
Lehigh University, Pa	88	248	.26
Louisiana State Univ and Agr and Mechan College	52	386	.40
Maryland, University of	45	417	.43
Massachusetts Inst of Tech	6	1,353	1.39
Massachusetts, University of	73	295	.30
Miami University, Ohio	90	247	.25
Miami, University of	96	231	.24
Michigan State University	22	684	.71
Michigan, University of	7	1,341	1.38
Minnesota, University of	8	1,336	1.38

TABLE 4

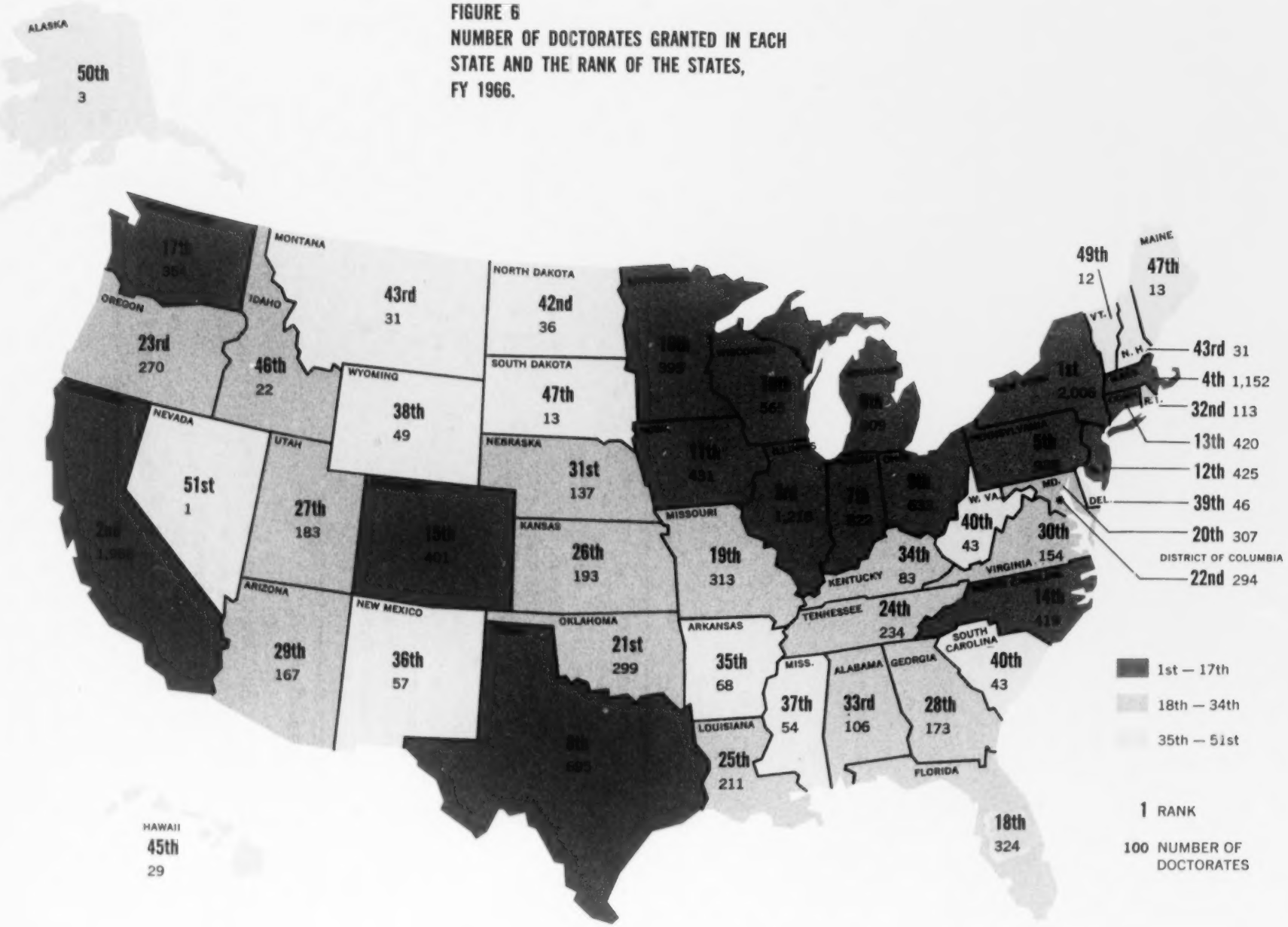
(continued)

Leading Baccalaureate Source Institutions	Rank of Institution as Bacc Source	Doctorate Recipients with Bacc from Inst	
		N	%
Missouri, University of, Columbia	28	575	.59
Nebraska, University of	31	531	.55
New Hampshire, University of	98	228	.24
New York University	11	1,170	1.21
North Carolina State Univ at Raleigh	98	228	.24
North Carolina, University of	54	379	.39
North Texas State University	77	277	.29
Northwestern Univ, Illinois	27	634	.65
Notre Dame, Univ of, Indiana	49	392	.40
Oberlin College, Ohio	32	527	.54
Ohio State University	15	939	.97
Ohio University	100	227	.23
Oklahoma State Univ of Agr and Appl Sci	33	525	.54
Oklahoma, University of	40	459	.47
Oregon State University	59	361	.37
Oregon, University of	80	268	.28
Pennsylvania State University	19	867	.89
Pennsylvania, University of	29	559	.58
Pittsburgh, University of	51	387	.40
Polytechnic Institute of Brooklyn	81	265	.27
Princeton University	23	678	.70
Purdue University	18	872	.90
Queens College, N Y	58	367	.38
Rensselaer Poly Inst, N Y	44	420	.43
Rice University, Texas	69	319	.33
Rochester, University of	54	379	.39
Rutgers, The State Univ, N J	26	650	.67
Southern California, Univ of	56	377	.39
Stanford University, Calif	21	688	.71
Swarthmore College, Pa	61	356	.37
Syracuse University	37	497	.51
Temple University, Pa	48	398	.41
Tennessee, University of	74	294	.30
Texas A & M University	57	370	.38
Texas Technological College	94	234	.24
Texas, University of	16	895	.92
Tufts University, Mass	92	240	.25
Utah State Univ of Agr and Appl Sci	53	385	.40
Utah, University of	25	653	.67
Washington State University	72	296	.31
Washington University, Mo	60	359	.37
Washington, University of, Wash	20	740	.76
Wayne State University, Mich	30	540	.56
West Virginia University	85	254	.26
Western Reserve Univ, Ohio	83	258	.27
Wisconsin, University of	5	1,355	1.40
Yale University	17	874	.90

Note: Tie ranks are all given highest rank.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data see p. 31 of Publ. 1142.

FIGURE 6
NUMBER OF DOCTORATES GRANTED IN EACH STATE AND THE RANK OF THE STATES, FY 1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data, see p. 14 of NAS-NRC Publication 1142.

Appendix B of this report lists each United States college or university that has been a baccalaureate source for at least one doctorate recipient since 1920 and shows the production of the institution by doctoral field for the periods 1920 - 1966 and 1960 - 1966.

Appendix C shows the relation between the baccalaureate institutions and doctoral institutions. It lists the 300 leading baccalaureate-source institutions for the leading 40 doctorate-granting institutions.

DOCTORATES GRANTED BY STATE

Figure 6 shows the number of persons receiving doctoral degrees from universities in each state of the United States during FY 1966. The figure indicates also each state's rank in numbers of doctorates granted during that year. Similar data for 1950 and 1958 were analyzed, but because most of the states' ranks were remarkably stable for 1950, 1958, and 1966, only the 1966 statistics are displayed in Figure 6. However, three states did show marked gains in relative rank from 1950 to 1966, and two suffered marked declines. (Arizona climbed from 38 to 29; Florida from 31 to 18; Texas from 18 to 8. The District of Columbia fell from 14 to 22 and Virginia from 22 to 30.)

Five states—New York, California, Illinois, Massachusetts, and Pennsylvania—have maintained leadership in numbers of doctorates granted. In 1950, these five accounted for 52 percent of all doctorates; in 1958 they accounted for 48 percent; and in 1966 for 41 percent.

Per capita doctoral production data (doctorates granted in state/population of same state) are not included in this book because they tend to be misleading. Only a minority of the persons receiving doctorates in a state are natives of that state in the sense that they went to high school there. Therefore, a ratio of 2:10,000 would not mean necessarily that 2 persons per 10,000 of that state's population received doctorates. Details on this point will be presented shortly with Table 6.

There is a strong relation between the amount of money spent on all higher education in a state and the number of doctorates that are granted in that state. Figure 7 (p. 32) shows this relation. The money spent per state includes funds from state, federal, and other sources. As a rough approximation, a state produces one doctorate for each $300,000 it devotes to its higher education operation. The state, of course, receives many returns from this investment in addition to the doctorate.

Doctorates by Field, by State

Not only do states vary in the total number of doctorates granted in the state, but they vary considerably in the doctoral fields of the graduates. Table 5 shows the number of doctorate recipients by field for FY 1966 for each state. A percentage distribution by field for each state is included.

In general, states that are high producers of doctorates tend to have a field distribution similar to the national average. (Compare statistics for the five highest-ranked states with the national totals.) States that produce fewer doctorates tend to place heavier emphasis on the natural sciences and to slight the social sciences, arts and humanities, and professions. (Compare data for the 10 lowest-ranked states with the national totals.)

TABLE 5

Doctorates Granted, by State and Field of Doctorate, FY 1966

State of Doctorate-Granting Institution		Field of Doctorate: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
U.S. TOTAL	N	6,077	766	1,049	161	295	1,580	641	425	399	2,283	362	469	2,869	572	316	804	659	46	472
	%	34.02	4.29	5.87	.90	1.65	8.84	3.59	2.38	2.23	12.78	2.03	2.63	16.06	3.20	1.77	4.50	3.69	.26	2.64
NEW ENGLAND	N	693	87	159	33	29	173	77	49	38	236	34	42	193	11	25	91	34	—	32
	%	39.80	5.00	9.13	1.90	1.67	9.94	4.42	2.81	2.18	13.56	1.95	2.41	11.09	.63	1.44	5.23	1.95	—	1.84
Maine	N	4	—	—	—	—	3	3	—	—	1	1	—	4	3	—	1	—	—	—
	%	30.77	—	—	—	—	23.08	23.08	—	—	7.69	7.69	—	30.77	23.08	—	7.69	—	—	—
New Hampshire	N	16	5	2	—	—	8	5	2	—	1	1	—	15	3	—	—	1	—	11
	%	51.61	16.13	6.45	—	—	25.81	16.13	6.45	—	3.23	3.23	—	48.39	9.68	—	—	3.23	—	35.48
Vermont	N	8	—	—	—	—	8	5	3	—	—	—	—	4	—	1	2	—	—	1
	%	66.67	—	—	—	—	66.67	41.67	25.00	—	—	—	—	33.33	—	8.33	16.67	—	—	8.33
Massachusetts	N	483	57	102	25	19	106	49	28	29	189	24	37	96	2	9	60	14	—	11
	%	41.93	4.95	8.85	2.17	1.65	9.20	4.25	2.43	2.52	16.41	2.08	3.21	8.33	.17	.78	5.21	1.22	—	.95
Rhode Island	N	65	14	16	3	6	12	3	1	7	16	2	1	18	—	2	4	7	—	5
	%	57.52	12.39	14.16	2.65	5.31	10.62	2.65	.88	6.19	14.16	1.77	.88	15.93	—	1.77	3.54	6.19	—	4.42
Connecticut	N	117	11	39	5	4	36	12	15	2	29	6	4	56	3	13	24	12	—	4
	%	27.86	2.62	9.29	1.19	.95	8.57	2.86	3.57	.48	6.90	1.43	.95	13.33	.71	3.10	5.71	2.86	—	.95
MIDDLE ATLANTIC	N	1,213	141	244	38	69	296	121	91	57	475	84	125	411	66	37	121	113	5	69
	%	36.04	4.19	7.25	1.13	2.05	8.79	3.59	2.70	1.69	14.11	2.50	3.71	12.21	1.96	1.10	3.59	3.36	.15	2.05
New York	N	626	79	129	14	32	148	58	41	26	244	33	65	243	42	15	71	65	3	47
	%	31.21	3.94	6.43	.70	1.60	7.38	2.89	2.04	1.30	12.16	1.65	3.24	12.11	2.09	.75	3.54	3.24	.15	2.34
New Jersey	N	199	34	39	13	6	49	23	21	8	69	26	11	60	13	1	15	19	1	11
	%	46.82	8.00	9.18	3.06	1.41	11.53	5.41	4.94	1.88	16.24	6.12	2.59	14.12	3.06	.24	3.53	4.47	.24	2.59
Pennsylvania	N	388	28	76	11	31	99	40	29	23	162	25	49	108	11	21	35	29	1	11
	%	41.50	2.99	8.13	1.18	3.32	10.59	4.28	3.10	2.46	17.33	2.67	5.24	11.55	1.18	2.25	3.74	3.10	.11	1.18
EAST NORTH CENTRAL	N	1,326	159	176	27	68	392	157	93	68	531	74	113	671	159	95	156	155	17	89
	%	31.99	3.84	4.25	.65	1.64	9.46	3.79	2.24	1.64	12.81	1.79	2.73	16.19	3.84	2.29	3.76	3.74	.41	2.15
Ohio	N	233	25	36	—	12	81	38	18	10	81	13	19	86	15	12	22	25	—	12
	%	36.81	3.95	5.69	—	1.90	12.80	6.00	2.84	1.58	12.80	2.05	3.00	13.59	2.37	1.90	3.48	3.95	—	1.90
Indiana	N	258	25	38	7	19	82	34	13	7	106	12	22	142	36	15	30	38	10	13
	%	31.39	3.04	4.62	.85	2.31	9.98	4.14	1.58	.85	12.90	1.46	2.68	17.27	4.38	1.82	3.65	4.62	1.22	1.58
Illinois	N	440	58	59	9	31	106	34	30	23	194	26	40	169	25	27	50	41	4	22
	%	36.18	4.77	4.85	.74	2.55	8.72	2.80	2.47	1.89	15.95	2.14	3.29	13.90	2.06	2.22	4.11	3.37	.33	1.81
Michigan	N	228	31	18	3	2	56	24	8	16	107	11	24	137	38	22	27	25	2	23
	%	25.08	3.41	1.98	.33	.22	6.16	2.64	.88	1.76	11.77	1.21	2.64	15.07	4.18	2.42	2.97	2.75	.22	2.53
Wisconsin	N	167	20	25	8	4	67	27	24	12	43	12	8	137	45	19	27	26	1	19
	%	29.56	3.54	4.42	1.42	.71	11.86	4.78	4.25	2.12	7.61	2.12	1.42	24.25	7.96	3.36	4.78	4.60	.18	3.36

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
2,666	1,133	109	258	622	401	2,497	644	666	478	71	199	240	176	730	370	188	3,026	17,865	N	U.S. TOTAL
14.92	6.34	.61	1.44	3.48	2.24	13.98	3.60	3.73	2.68	.40	1.11	1.34	.99	4.09	2.07	1.05	16.94	100.01	%	
315	108	19	29	91	55	322	92	75	77	20	32	5	21	97	28	58	121	1,741	N	NEW ENGLAND
18.09	6.20	1.09	1.67	5.23	3.16	18.50	5.28	4.31	4.42	1.15	1.84	.29	1.21	5.57	1.61	3.33	6.95	100.00	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	N	Maine
2	2	—	—	—	—	3	3	—	—	—	—	—	—	—	—	—	—	100.00	%	
15.38	15.38	—	—	—	—	23.08	23.08	—	—	—	—	—	—	—	—	—	—	31	N	New Hampshire
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	N	Vermont
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
218	72	17	16	64	36	193	63	40	43	15	15	—	17	71	28	37	91	1,152	N	Massachusetts
18.92	6.25	1.48	1.39	5.56	3.13	16.75	5.47	3.47	3.73	1.30	1.30	—	1.48	6.16	2.43	3.21	7.90	99.99	%	
18	7	—	4	3	4	10	4	3	2	—	1	—	—	2	—	2	—	113	N	Rhode Island
15.93	6.19	—	3.54	2.65	3.54	8.85	3.54	2.65	1.77	—	.88	—	—	1.77	—	1.77	—	100.00	%	
77	27	2	9	24	15	116	22	32	32	5	16	5	4	24	—	19	30	420	N	Connecticut
18.33	6.43	.48	2.14	5.71	3.57	27.62	5.24	7.62	7.62	1.19	3.81	1.19	.95	5.71	—	4.52	7.14	99.99	%	
533	231	20	45	110	96	500	131	142	78	21	63	19	39	137	49	46	572	3,366	N	MIDDLE ATLANTIC
15.83	6.86	.59	1.34	3.27	2.85	14.85	3.89	4.22	2.32	.62	1.87	.56	1.16	4.07	1.46	1.37	16.99	99.99	%	
355	164	10	34	63	72	326	93	89	52	17	42	7	22	82	41	17	374	2,006	N	New York
17.70	8.18	.50	1.69	3.14	3.59	16.25	4.64	4.44	2.59	.85	2.09	.35	1.10	4.09	2.04	.85	18.64	100.00	%	
52	22	—	2	15	13	52	16	10	10	1	3	—	11	25	—	20	37	425	N	New Jersey
12.24	5.18	—	.47	3.53	3.06	12.24	3.76	2.35	2.35	.24	.71	—	2.59	5.88	—	4.71	8.71	100.01	%	
126	45	10	9	32	11	122	22	43	16	3	18	12	6	30	8	9	161	935	N	Pennsylvania
13.48	4.81	1.07	.96	3.42	1.18	13.05	2.35	4.60	1.71	.32	1.93	1.28	.64	3.21	.86	.96	17.22	100.01	%	
615	267	30	65	142	68	618	119	160	118	12	35	118	44	186	112	30	729	4,145	N	EAST NORTH
14.84	6.44	.72	1.57	3.43	1.64	14.91	2.87	3.86	2.85	.29	.84	2.85	1.06	4.49	2.70	.72	17.59	100.01	%	CENTRAL
75	38	1	8	19	—	72	15	15	12	4	3	19	3	31	15	7	136	633	N	Ohio
11.85	6.00	.16	1.26	3.00	—	11.37	2.37	2.37	1.90	.63	.47	3.00	.47	4.90	2.37	1.11	21.48	100.00	%	
94	41	—	12	29	12	111	18	19	31	—	5	23	14	41	32	3	176	822	N	Indiana
11.44	4.99	—	1.46	3.53	1.46	13.50	2.19	2.31	3.77	—	.61	2.80	1.70	4.99	3.89	.36	21.41	100.00	%	
198	85	15	20	31	29	179	32	48	31	6	14	32	15	65	34	20	165	1,216	N	Illinois
16.28	6.99	1.23	1.64	2.55	2.38	14.72	2.63	3.95	2.55	.49	1.15	2.63	1.23	5.35	2.80	1.64	13.57	100.00	%	
170	81	10	14	33	21	146	19	41	34	—	6	29	11	37	25	—	191	909	N	Michigan
18.70	8.91	1.10	1.54	3.63	2.31	16.06	2.09	4.51	3.74	—	.66	3.19	1.21	4.07	2.75	—	21.01	99.99	%	
78	22	4	11	30	6	110	35	37	10	2	7	15	1	12	6	—	61	565	N	Wisconsin
13.81	3.89	.71	1.95	5.31	1.06	19.47	6.19	6.55	1.77	.35	1.24	2.65	.18	2.12	1.06	—	10.80	100.01	%	

TABLE 5

(continued)

State of Doctorate-Granting Institution		Field of Doctorate: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
WEST NORTH CENTRAL	N	442	54	46	2	12	150	60	29	30	162	30	29	360	103	58	82	64	2	51
	%	29.12	3.56	3.03	.13	.79	9.88	3.95	1.91	1.98	10.67	1.98	1.91	23.72	6.79	3.82	5.40	4.22	.13	3.36
Minnesota	N	106	14	8	—	1	28	10	6	8	48	11	15	109	31	31	23	19	1	4
	%	26.84	3.54	2.03	—	.25	7.09	2.53	1.52	2.03	12.15	2.78	3.80	27.59	7.85	7.85	5.82	4.81	.25	1.01
Iowa	N	155	17	18	1	5	47	23	6	6	67	9	8	93	35	11	21	13	—	13
	%	35.96	3.94	4.18	.23	1.16	10.90	5.34	1.39	1.39	15.55	2.09	1.86	21.58	8.12	2.55	4.87	3.02	—	3.02
Missouri	N	71	12	14	1	5	11	4	3	11	23	4	4	70	19	6	23	7	1	14
	%	22.68	3.83	4.47	.32	1.60	3.51	1.28	.96	3.51	7.35	1.28	1.28	22.36	6.07	1.92	7.35	2.24	.32	4.47
North Dakota	N	7	—	—	—	—	5	1	3	2	—	—	—	9	1	1	5	2	—	—
	%	19.44	—	—	—	—	13.89	2.78	8.33	5.56	—	—	—	25.00	2.78	2.78	13.89	5.56	—	—
South Dakota	N	—	—	—	—	—	—	—	—	—	—	—	—	4	1	—	2	—	—	1
	%	—	—	—	—	—	—	—	—	—	—	—	—	30.77	7.69	—	15.38	—	—	7.69
Nebraska	N	24	7	2	—	—	11	7	3	1	3	—	—	26	8	2	3	7	—	6
	%	17.52	5.11	1.46	—	—	8.03	5.11	2.19	.73	2.19	—	—	18.98	5.84	1.46	2.19	5.11	—	4.38
Kansas	N	79	4	4	—	1	48	15	8	2	21	6	2	49	8	7	5	16	—	13
	%	40.93	2.07	2.07	—	.52	24.87	7.77	4.15	1.04	10.88	3.11	1.04	25.39	4.15	3.63	2.59	8.29	—	6.74
SOUTH ATLANTIC	N	582	86	127	11	39	153	62	32	19	197	46	30	336	65	34	82	97	6	52
	%	32.28	4.77	7.04	.61	2.16	8.49	3.44	1.77	1.05	10.93	2.55	1.66	18.64	3.61	1.89	4.55	5.38	.33	2.88
Delaware	N	33	—	3	—	2	15	3	—	—	15	8	—	5	—	1	1	—	—	3
	%	71.74	—	6.52	—	4.35	32.61	6.52	—	—	32.61	17.39	—	10.87	—	2.17	2.17	—	—	6.52
Maryland	N	123	18	41	7	10	23	9	4	2	39	8	10	73	8	8	25	27	1	4
	%	40.07	5.86	13.36	2.28	3.26	7.49	2.93	1.30	.65	12.70	2.61	3.26	23.78	2.61	2.61	8.14	8.79	.33	1.30
District of Columbia	N	48	4	16	1	5	18	6	8	—	10	—	2	35	—	4	12	16	—	3
	%	16.33	1.36	5.44	.34	1.70	6.12	2.04	2.72	—	3.40	—	.68	11.90	—	1.36	4.08	5.44	—	1.02
Virginia	N	76	19	14	—	8	11	6	2	3	29	5	1	27	9	2	7	3	—	6
	%	49.35	12.34	9.09	—	5.19	7.14	3.90	1.30	1.95	18.83	3.25	.65	17.53	5.84	1.30	4.55	1.95	—	3.90
West Virginia	N	13	—	2	—	—	3	2	1	1	7	1	—	17	2	2	7	5	—	1
	%	30.23	—	4.65	—	—	6.98	4.65	2.33	2.33	16.28	2.33	—	39.53	4.65	4.65	16.28	11.63	—	2.33
North Carolina	N	107	22	25	2	8	25	12	7	2	33	4	4	95	29	13	19	18	2	14
	%	25.54	5.25	5.97	.48	1.91	5.97	2.86	1.67	.48	7.88	.95	.95	22.67	6.92	3.10	4.53	4.30	.48	3.34
South Carolina	N	26	1	6	1	2	13	5	3	1	5	4	—	9	3	1	—	4	—	1
	%	60.47	2.33	13.95	2.33	4.65	30.23	11.63	6.98	2.33	11.63	9.30	—	20.93	6.98	2.33	—	9.30	—	2.33
Georgia	N	59	10	6	—	1	13	7	1	—	30	10	7	35	5	1	6	12	1	10
	%	34.10	5.78	3.47	—	.58	7.51	4.05	.58	—	17.34	5.78	4.05	20.23	2.89	.58	3.47	6.94	.58	5.78
Florida	N	97	12	14	—	3	32	12	6	10	29	6	6	40	9	2	5	12	2	10
	%	29.94	3.70	4.32	—	.93	9.88	3.70	1.85	3.09	8.95	1.85	1.85	12.35	2.78	.62	1.54	3.70	.62	3.09
EAST SOUTH CENTRAL	N	104	6	25	2	4	38	17	7	1	34	13	8	88	20	8	30	16	—	14
	%	21.80	1.26	5.24	.42	.84	7.97	3.56	1.47	.21	7.13	2.73	1.68	18.45	4.19	1.68	6.29	3.35	—	2.94
Kentucky	N	17	1	5	—	—	10	5	3	—	1	1	—	21	6	—	9	2	—	4
	%	20.48	1.20	6.02	—	—	12.05	6.02	3.61	—	1.20	1.20	—	25.30	7.23	—	10.84	2.41	—	4.82

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
215	90	3	25	66	20	178	48	41	18	2	8	42	19	40	23	5	283	1,518	N	WEST NORTH
14.16	5.93	.20	1.65	4.35	1.32	11.73	3.16	2.70	1.19	.13	.53	2.77	1.25	2.64	1.52	.33	18.64	100.01	%	CENTRAL
72	28	3	4	21	10	47	15	13	8	—	—	9	2	14	8	—	47	395	N	Minnesota
18.23	7.09	.76	1.01	5.32	2.53	11.90	3.80	3.29	2.03	—	—	2.28	.51	3.54	2.03	—	11.90	100.00	%	
54	18	—	8	25	1	51	10	10	1	—	3	13	14	11	4	5	67	431	N	Iowa
12.53	4.18	—	1.86	5.80	.23	11.83	2.32	2.32	.23	—	.70	3.02	3.25	2.55	.93	1.16	15.55	100.00	%	
52	28	—	10	10	3	47	17	8	6	2	4	7	3	11	8	—	62	313	N	Missouri
16.61	8.95	—	3.19	3.19	.96	15.02	5.43	2.56	1.92	.64	1.28	2.24	.96	3.51	2.56	—	19.81	99.99	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	36	N	North Dakota
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.56	100.00	%	
1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	8	13	N	South Dakota
7.69	—	—	—	7.69	—	—	—	—	—	—	—	—	—	—	—	—	61.54	100.00	%	
20	8	—	2	6	3	10	4	5	—	—	1	—	—	3	3	—	54	137	N	Nebraska
14.60	5.84	—	1.46	4.38	2.19	7.30	2.92	3.65	—	—	.73	—	—	2.19	2.19	—	39.42	100.01	%	
16	8	—	1	3	3	23	2	5	3	—	—	13	—	1	—	—	25	193	N	Kansas
8.29	4.15	—	.52	1.55	1.55	11.92	1.04	2.59	1.55	—	—	6.74	—	.52	—	—	12.95	100.00	%	
308	109	6	34	66	76	266	97	70	50	6	18	5	19	63	21	32	248	1,803	N	SOUTH ATLANTIC
17.08	6.05	.33	1.89	3.66	4.22	14.75	5.38	3.88	2.77	.33	1.00	.28	1.05	3.49	1.16	1.77	13.75	99.99	%	
4	4	—	—	—	—	4	2	2	—	—	—	—	—	—	—	—	—	46	N	Delaware
8.70	8.70	—	—	—	—	8.70	4.35	4.35	—	—	—	—	—	—	—	—	—	100.01	%	
39	12	1	6	9	9	44	8	11	9	3	6	—	7	—	—	—	28	307	N	Maryland
12.70	3.91	.33	1.95	2.93	2.93	14.33	2.61	3.58	2.93	.98	1.95	—	2.28	—	—	—	9.12	100.00	%	
77	16	5	5	14	32	61	27	7	17	1	6	—	3	32	13	16	41	294	N	District of
26.19	5.44	1.70	1.70	4.76	10.88	20.75	9.18	2.38	5.78	.34	2.04	—	1.02	10.88	4.42	5.44	13.95	100.00	%	Columbia
15	1	—	—	10	4	19	10	6	2	—	1	—	—	2	—	—	15	154	N	Virginia
9.74	.65	—	—	6.49	2.60	12.34	6.49	3.90	1.30	—	.65	—	—	1.30	—	—	9.74	100.00	%	
3	3	—	—	—	—	2	1	—	—	—	—	—	1	—	—	—	8	43	N	West Virginia
6.98	6.98	—	—	—	—	4.65	2.33	—	—	—	—	—	2.33	—	—	—	18.60	99.99	%	
89	29	—	8	28	19	82	28	30	17	2	2	—	3	15	6	9	31	419	N	North Carolina
21.24	6.92	—	1.91	6.68	4.53	19.57	6.68	7.16	4.06	.48	.48	—	.72	3.58	1.43	2.15	7.40	100.00	%	
—	—	—	—	—	—	5	2	3	—	—	—	—	—	—	—	—	3	43	N	South Carolina
—	—	—	—	—	—	11.63	4.65	6.98	—	—	—	—	—	—	—	—	6.98	100.01	%	
14	8	—	2	1	2	21	14	1	3	—	3	—	—	7	—	7	37	173	N	Georgia
8.09	4.62	—	1.16	.58	1.16	12.14	8.09	.58	1.73	—	1.73	—	—	4.05	—	4.05	21.39	100.00	%	
67	36	—	13	4	10	28	5	10	2	—	—	5	5	7	2	—	85	324	N	Florida
20.68	11.11	—	4.01	1.23	3.09	8.64	1.54	3.09	.62	—	—	1.54	1.54	2.16	.62	—	26.23	100.00	%	
63	38	—	4	11	9	49	19	20	4	1	5	—	—	26	11	9	147	477	N	EAST SOUTH
13.21	7.97	—	.84	2.31	1.89	10.27	3.98	4.19	.84	.21	1.05	—	—	5.45	2.31	1.89	30.82	100.00	%	CENTRAL
16	6	—	3	4	3	10	5	5	—	—	—	—	—	1	—	—	18	83	N	Kentucky
19.28	7.23	—	3.61	4.82	3.61	12.05	6.02	6.02	—	—	—	—	—	1.20	—	—	21.69	100.00	%	

TABLE 5

(continued)

State of Doctorate-Granting Institution		Field of Doctorate: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
Tennessee	N	60	2	18	1	3	16	7	2	1	23	9	4	30	3	5	15	3	—	4
	%	25.64	.85	7.69	.43	1.28	6.84	2.99	.85	.43	9.83	3.85	1.71	12.82	1.28	2.14	6.41	1.28	—	1.71
Alabama	N	19	3	2	1	1	8	4	1	—	6	2	3	19	4	—	6	4	—	5
	%	17.92	2.83	1.89	.94	.94	7.55	3.77	.94	—	5.66	1.89	2.83	17.92	3.77	—	5.66	3.77	—	4.72
Mississippi	N	8	—	—	—	—	4	1	1	—	4	1	1	18	7	3	—	7	—	1
	%	14.81	—	—	—	—	7.41	1.85	1.85	—	7.41	1.85	1.85	33.33	12.96	5.56	—	12.96	—	1.85
WEST SOUTH CENTRAL	N	473	43	60	1	26	113	49	34	50	207	52	34	227	40	17	59	49	3	59
	%	37.16	3.38	4.71	.08	2.04	8.88	3.85	2.67	3.93	16.26	4.08	2.67	17.83	3.14	1.34	4.63	3.85	.24	4.63
Arkansas	N	14	—	—	—	—	9	3	1	—	5	—	2	3	1	—	—	2	—	—
	%	20.59	—	—	—	—	13.24	4.41	1.47	—	7.35	—	2.94	4.41	1.47	—	—	2.94	—	—
Louisiana	N	52	8	7	—	3	24	8	7	7	6	5	—	47	15	5	7	9	—	11
	%	24.64	3.79	3.32	—	1.42	11.37	3.79	3.32	3.32	2.84	2.37	—	22.27	7.11	2.37	3.32	4.27	—	5.21
Oklahoma	N	106	8	9	—	4	14	7	5	5	70	10	10	59	7	7	17	9	—	19
	%	35.45	2.68	3.01	—	1.34	4.68	2.34	1.67	1.67	23.41	3.34	3.34	19.73	2.34	2.34	5.69	3.01	—	6.35
Texas	N	301	27	44	1	19	66	31	21	38	126	37	22	118	17	5	35	29	3	29
	%	43.31	3.88	6.33	.14	2.73	9.50	4.46	3.02	5.47	18.13	5.32	3.17	16.98	2.45	.72	5.04	4.17	.43	4.17
MOUNTAIN	N	304	41	40	2	9	65	28	22	52	106	7	23	111	35	5	25	23	3	20
	%	33.37	4.50	4.39	.22	.99	7.14	3.07	2.41	5.71	11.64	.77	2.52	12.18	3.84	.55	2.74	2.52	.33	2.20
Montana	N	10	4	—	—	—	2	1	—	1	3	1	2	9	1	—	1	2	2	3
	%	32.26	12.90	—	—	—	6.45	3.23	—	3.23	9.68	3.23	6.45	29.03	3.23	—	3.23	6.45	6.45	9.68
Idaho	N	12	1	—	—	—	5	5	—	3	3	3	—	1	1	—	—	—	—	—
	%	54.55	4.55	—	—	—	22.73	22.73	—	13.64	13.64	13.64	—	4.55	4.55	—	—	—	—	—
Wyoming	N	12	—	—	—	—	5	—	4	7	—	—	—	4	4	—	—	—	—	—
	%	24.49	—	—	—	—	10.20	—	8.16	14.29	—	—	—	8.16	8.16	—	—	—	—	—
Colorado	N	105	16	21	2	4	19	12	4	13	36	2	6	36	8	3	13	6	—	6
	%	26.18	3.99	5.24	.50	1.00	4.74	2.99	1.00	3.24	8.98	.50	1.50	8.98	2.00	.75	3.24	1.50	—	1.50
New Mexico	N	33	2	7	—	1	2	1	1	4	18	—	9	1	—	—	—	—	—	1
	%	57.89	3.51	12.28	—	1.75	3.51	1.75	1.75	7.02	31.58	—	15.79	1.75	—	—	—	—	—	1.75
Arizona	N	64	7	8	—	2	9	4	1	15	25	—	3	24	8	—	6	3	—	7
	%	38.32	4.19	4.79	—	1.20	5.39	2.40	.60	8.98	14.97	—	1.80	14.37	4.79	—	3.59	1.80	—	4.19
Utah	N	67	11	4	—	2	23	5	12	8	21	1	3	36	13	2	5	12	1	3
	%	36.61	6.01	2.19	—	1.09	12.57	2.73	6.56	4.37	11.48	.55	1.64	19.67	7.10	1.09	2.73	6.56	.55	1.64
Nevada	N	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—
	%	100.00	—	—	—	—	—	—	—	100.00	—	—	—	—	—	—	—	—	—	—
PACIFIC	N	940	149	172	45	39	200	70	68	84	335	22	65	471	73	37	157	108	10	86
	%	35.82	5.68	6.55	1.71	1.49	7.62	2.67	2.59	3.20	12.77	.84	2.48	17.95	2.78	1.41	5.98	4.12	.38	3.28
Washington	N	122	16	22	5	6	39	9	17	13	32	6	8	69	11	11	17	16	3	11
	%	34.46	4.52	6.21	1.41	1.69	11.02	2.54	4.80	3.67	9.04	1.69	2.26	19.49	3.11	3.11	4.80	4.52	.85	3.11

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
34	23	—	1	4	5	28	6	14	2	1	5	—	—	14	—	9	68	234	N	Tennessee
14.53	9.83	—	.43	1.71	2.14	11.97	2.56	5.98	.85	.43	2.14	—	—	5.98	—	3.85	29.06	100.00	%	
8	5	—	—	2	1	6	3	1	2	—	—	—	—	11	11	—	43	106	N	Alabama
7.55	4.72	—	—	1.89	.94	5.66	2.83	.94	1.89	—	—	—	—	10.38	10.38	—	40.57	100.00	%	
5	4	—	—	1	—	5	5	—	—	—	—	—	—	—	—	—	18	54	N	Mississippi
9.26	7.41	—	—	1.85	—	9.26	9.26	—	—	—	—	—	—	—	—	—	33.33	99.99	%	
136	71	2	9	39	14	146	30	44	44	—	8	15	5	48	42	—	243	1,273	N	WEST SOUTH
10.68	5.58	.16	.71	3.06	1.10	11.47	2.36	3.46	3.46	—	.63	1.18	.39	3.77	3.30	—	19.09	100.00	%	CENTRAL
1	—	—	—	1	—	—	—	—	—	—	—	—	—	17	17	—	33	68	N	Arkansas
1.47	—	—	—	1.47	—	—	—	—	—	—	—	—	—	25.00	25.00	—	48.53	100.00	%	
29	11	2	3	9	3	64	10	20	20	—	5	7	2	7	7	—	12	211	N	Louisiana
13.74	5.21	.95	1.42	4.27	1.42	30.33	4.74	9.48	9.48	—	2.37	3.32	.95	3.32	3.32	—	5.69	99.99	%	
25	11	—	—	8	6	22	8	4	2	—	—	8	—	—	—	—	87	299	N	Oklahoma
8.36	3.68	—	—	2.68	2.01	7.36	2.68	1.34	.67	—	—	2.68	—	—	—	—	29.10	100.00	%	
81	49	—	6	21	5	60	12	20	22	—	3	—	3	24	18	—	111	695	N	Texas
11.65	7.05	—	.86	3.02	.72	8.63	1.73	2.88	3.17	—	.43	—	.43	3.45	2.59	—	15.97	99.99	%	
109	58	7	5	23	15	85	26	28	16	—	2	10	3	8	7	1	294	911	N	MOUNTAIN
11.96	6.37	.77	.55	2.52	1.65	9.33	2.85	3.07	1.76	—	.22	1.10	.33	.88	.77	.11	32.27	99.99	%	
5	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	7	31	N	Montana
16.13	—	—	—	16.13	—	—	—	—	—	—	—	—	—	—	—	—	22.58	100.00	%	
—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	8	22	N	Idaho
—	—	—	—	—	—	4.55	4.55	—	—	—	—	—	—	—	—	—	36.36	100.01	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	49	N	Wyoming
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.35	100.00	%	
61	26	1	4	16	14	55	14	19	12	—	—	8	2	6	6	—	138	401	N	Colorado
15.21	6.48	.25	1.00	3.99	3.49	13.72	3.49	4.74	2.99	—	—	2.00	.50	1.50	1.50	—	34.41	100.00	%	
—	—	—	—	—	—	11	7	4	—	—	—	—	—	—	—	—	12	57	N	New Mexico
—	—	—	—	—	—	19.30	12.28	7.02	—	—	—	—	—	—	—	—	21.05	99.99	%	
21	16	4	—	1	—	7	2	2	2	—	—	—	1	—	—	—	51	167	N	Arizona
12.57	9.58	2.40	—	.60	—	4.19	1.20	1.20	1.20	—	—	—	.60	—	—	—	30.54	99.99	%	
22	16	2	1	1	1	11	2	3	2	—	2	2	—	2	1	1	45	183	N	Utah
12.02	8.74	1.09	.55	.55	.55	6.01	1.09	1.64	1.09	—	1.09	1.09	—	1.09	.55	.55	24.59	99.99	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	N	Nevada
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
371	160	22	42	74	48	331	82	85	72	9	28	26	26	123	77	7	388	2,624	N	PACIFIC
14.14	6.10	.84	1.60	2.82	1.83	12.61	3.13	3.24	2.74	.34	1.07	.99	.99	4.69	2.93	.27	14.79	100.00	%	
51	25	1	7	11	4	49	9	19	10	1	2	4	4	27	26	—	36	354	N	Washington
14.41	7.06	.28	1.98	3.11	1.13	13.84	2.54	5.37	2.82	.28	.56	1.13	1.13	7.63	7.34	—	10.17	100.00	%	

TABLE 5

(continued)

State of Doctorate-Granting Institution		Field of Doctorate: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
Oregon	N	67	16	4	—	—	30	9	9	9	8	1	1	72	22	4	15	17	4	10
	%	24.81	5.93	1.48	—	—	11.11	3.33	3.33	3.33	2.96	.37	.37	26.67	8.15	1.48	5.56	6.30	1.48	3.70
California	N	742	117	145	40	33	124	48	42	61	295	15	56	316	39	22	122	69	3	61
	%	37.70	5.95	7.37	2.03	1.68	6.30	2.44	2.13	3.10	14.99	.76	2.85	16.06	1.98	1.12	6.20	3.51	.15	3.10
Alaska	N	2	—	1	—	—	—	—	—	1	—	—	—	1	—	—	1	—	—	—
	%	66.67	—	33.33	—	—	—	—	—	33.33	—	—	—	33.33	—	—	33.33	—	—	—
Hawaii	N	7	—	—	—	—	7	4	—	—	—	—	—	13	1	—	2	6	—	4
	%	24.14	—	—	—	—	24.14	13.79	—	—	—	—	—	44.83	3.45	—	6.90	20.69	—	13.79
STATE UNKNOWN	N	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—	—

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Availability of Doctoral Programs by State

In some states, doctoral programs are available in many fields and from many institutions; in other states, only a very limited number of programs from one institution are available. Figure 8 and Table 6 (pp. 33-38) illustrate this variation by showing the number of doctorate-granting institutions per state and the number of institutions in each state that have granted at least one doctorate in a given field between FY 1960 and 1966. New York has by far the most institutions (28) that granted at least one doctorate during the period FY 1960 - 1966. In contrast, 11 states have just one doctoral institution apiece, and another 12 states have only two per state.

Most institutions do not offer doctoral programs in all fields, so many states with one or two institutions find themselves with no viable doctoral programs in certain fields. Table 6 shows that 17 states did not grant doctorates in ten or more fields during the period, and only 21 states had granted degrees in all but one or two fields.

If Table 6 is analyzed by field, it shows that doctorates were granted in chemistry and biochemistry and physiology in almost all states, but that doctorates in anthropology, classic languages and literature, speech and dramatic arts, and religion were granted in fewer than half the states.

Geographic Migration, High School to Doctorate

The people of the United States are mobile, and those who receive doctorates are no exception. They move from state to state and region to region as they progress from high school to undergraduate school to graduate school. Most persons receiving doctorates in a state are not natives of that state nor even of the same general geographic region. Table 7 shows the geographic migration between high school and doctorate. The migration data have been analyzed for the periods FY 1958 - 1960 and FY 1961 - 1963 as well as for FY 1964 - 1966, but the percentages were quite stable, so only the latter period is displayed in Table 7 (p. 40).

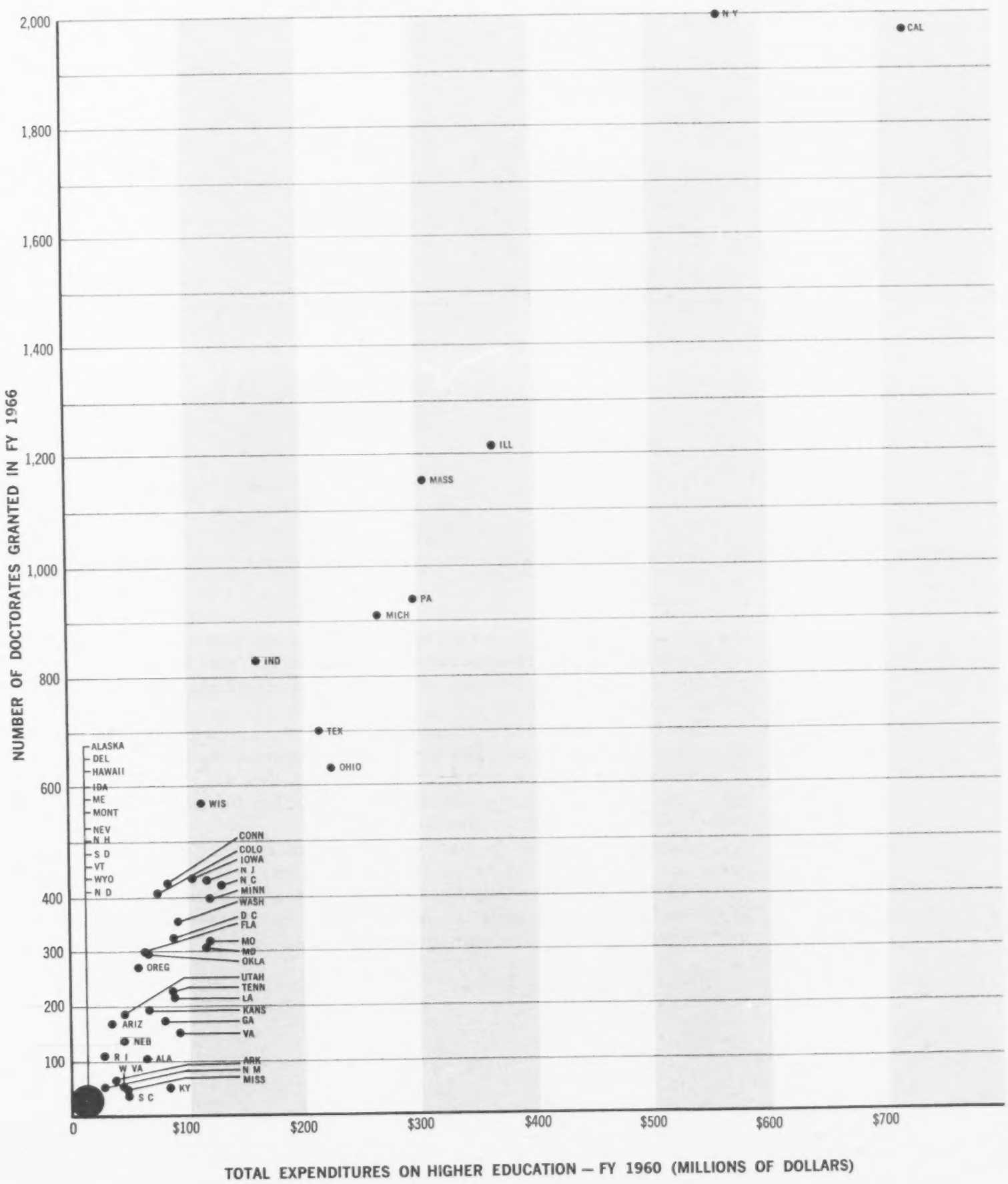
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
38	20	3	5	3	7	15	6	6	2	—	—	1	—	7	5	—	71	270	N	Oregon
14.07	7.41	1.11	1.85	1.11	2.59	5.56	2.22	2.22	.74	—	—	.37	—	2.59	1.85	—	26.30	100.00	%	
275	109	18	30	59	37	265	66	60	59	8	26	21	22	89	46	7	281	1,968	N	California
13.97	5.54	.91	1.52	3.00	1.88	13.47	3.35	3.05	3.00	.41	1.32	1.07	1.12	4.52	2.34	.36	14.28	100.00	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	N	Alaska
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
7	6	—	—	1	—	2	1	—	1	—	—	—	—	—	—	—	—	29	N	Hawaii
24.14	20.69	—	—	3.45	—	6.90	3.45	—	3.45	—	—	—	—	—	—	—	—	100.01	%	
1	1	—	—	—	—	2	—	1	1	—	—	—	—	2	—	—	1	7	N	STATE UNKNOWN

If one defines a "native" of a state as one who graduated from high school in that state, then only 27 percent of the doctorate recipients took doctorates in their native states. This percentage varies widely, from 50 percent for Texas to 10 percent for Arizona, but in general three fourths of a state's doctorates are immigrants.

Looked at in terms of the Census Bureau's nine geographic areas, a similar analysis shows that only 39 percent of these persons received doctorates in the same geographic region as the one in which they went to high school. Again, the variation is large, ranging from 53 percent for the West South Central region to 21 percent for New England.

Appendix D tabulates the state of doctoral institution by state of baccalaureate institution for 80,978 United States natives who received doctorates between FY 1960 and 1966. Only 29,229 (36 percent) of these took their doctorate in the same state as the state of their baccalaureate. These data would suggest that concern for doctoral education must go beyond state or regional boundaries.

FIGURE 7
TOTAL EXPENDITURES IN FY 1960 ON HIGHER EDUCATION AND THE NUMBER OF DOCTORATES GRANTED IN FY 1966, BY STATE.



Source: USOE, *Financial Statistics of Institutions of Higher Education, 1959-60* (OE-50023-60) Table 1, p. 90.
NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 8
STATE AND REGIONAL AVAILABILITY OF DOCTORATE-GRANTING INSTITUTIONS, 1960-1966.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 6

Number of Institutions Granting at Least One Doctorate, FY 1960 - 1966, by State and Field of Doctorate

State of Doctorate-Granting Institution	Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field																		
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
U.S. TOTAL	165	103	124	79	102	152	139	138	82	106	84	81	151	60	98	140	135	74	115
NEW ENGLAND	21	7	13	8	10	20	19	17	7	10	7	8	16	8	10	16	13	6	13
MAINE	1	—	—	—	—	1	1	1	—	1	1	—	1	1	—	1	—	—	—
NEW HAMPSHIRE	2	1	1	—	—	1	1	1	—	1	1	—	2	1	—	2	1	1	2
VERMONT	1	—	—	—	—	1	1	1	—	—	—	—	1	—	1	1	1	—	1
MASSACHUSETTS	12	4	9	6	7	12	11	10	4	4	2	4	8	2	5	8	7	3	6
RHODE ISLAND	3	1	1	1	1	3	3	2	2	2	1	2	2	2	2	2	2	—	2
CONNECTICUT	2	1	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
MIDDLE ATLANTIC	31	20	26	17	20	29	25	26	12	20	17	17	30	5	19	26	28	11	19
NEW YORK	18	12	16	9	10	17	14	15	6	11	9	8	16	3	10	14	15	6	13
NEW JERSEY	4	3	3	3	3	3	3	3	2	4	3	4	3	1	2	3	3	2	2
PENNSYLVANIA	9	5	7	5	7	9	8	8	4	5	5	5	11	1	7	9	10	3	4
EAST NORTH CENTRAL	21	15	17	13	15	21	20	20	11	13	13	10	18	7	14	17	18	12	14
OHIO	7	4	5	3	5	7	6	7	3	3	3	2	4	1	3	3	4	3	3
INDIANA	3	3	3	3	2	3	3	3	2	2	2	2	3	2	3	3	3	3	3
ILLINOIS	6	4	4	3	4	6	6	5	3	3	3	3	6	1	4	6	6	3	4
MICHIGAN	3	3	3	3	3	3	3	3	2	3	3	2	3	2	2	3	3	2	3
WISCONSIN	2	1	2	1	1	2	2	2	1	2	2	1	2	1	2	2	2	1	1
WEST NORTH CENTRAL	12	8	9	7	9	12	11	11	9	8	7	7	14	7	12	13	12	6	13
MINNESOTA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IOWA	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2
MISSOURI	4	3	3	3	3	4	3	3	3	2	2	2	4	1	4	3	3	1	3
NORTH DAKOTA	2	—	—	—	—	2	2	2	1	—	—	—	2	1	1	2	2	—	2
SOUTH DAKOTA	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1	2	1	—	2
NEBRASKA	1	1	1	1	1	1	1	1	1	1	—	—	1	1	1	1	1	1	1

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
137	118	39	73	95	77	134	102	97	78	44	68	39	52	97	50	37	121	212	U.S. TOTAL
12	12	3	7	10	9	14	10	6	9	6	7	1	5	8	2	5	6	24	NEW ENGLAND
1	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	MAINE
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	NEW HAMPSHIRE
—	—	—	—	—	—	1	—	—	1	—	—	—	—	—	—	—	—	2	VERMONT
8	8	2	4	7	6	9	7	3	5	4	5	—	3	5	2	3	5	14	MASSACHUSETTS
1	1	—	1	1	1	1	1	1	1	1	1	—	—	1	—	1	—	3	RHODE ISLAND
2	2	1	2	2	2	2	1	2	2	1	1	1	2	2	—	1	1	2	CONNECTICUT
26	22	10	13	17	14	26	18	19	15	12	19	7	10	23	10	14	20	48	MIDDLE ATLANTIC
15	12	5	9	10	8	14	10	10	8	7	11	4	6	13	6	8	13	28	NEW YORK
2	2	1	1	2	2	3	2	2	2	1	2	—	1	3	—	2	1	6	NEW JERSEY
9	8	4	3	5	4	9	6	7	5	4	6	3	3	7	4	4	6	14	PENNSYLVANIA
18	17	10	15	15	12	22	16	16	12	9	12	12	9	16	12	7	22	28	EAST NORTH CENTRAL
5	5	2	3	4	3	8	5	6	4	3	2	3	2	4	2	2	7	10	OHIO
3	2	1	3	3	2	4	3	2	1	1	2	2	1	3	2	2	4	5	INDIANA
6	6	4	5	4	4	5	4	4	3	3	4	3	3	5	5	2	6	7	ILLINOIS
3	3	2	3	3	2	3	3	3	3	1	2	3	2	2	2	1	3	3	MICHIGAN
1	1	1	1	1	1	2	1	1	1	1	2	1	1	2	1	—	2	3	WISCONSIN
12	10	1	10	10	8	11	9	8	7	3	5	5	5	10	7	1	12	15	WEST NORTH CENTRAL
1	1	1	1	1	1	1	1	1	1	—	1	1	1	1	1	—	1	1	MINNESOTA
2	2	—	2	2	1	1	1	1	1	1	1	1	1	2	1	1	2	2	IOWA
4	3	—	4	3	4	4	4	3	3	2	2	1	2	4	3	—	4	4	MISSOURI
1	1	—	—	—	—	1	1	—	—	—	—	—	—	1	1	—	1	2	NORTH DAKOTA
1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	2	SOUTH DAKOTA
1	1	—	1	1	1	1	1	1	1	—	1	—	—	1	1	—	1	1	NEBRASKA

TABLE 6

(continued)

Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field

State of Doctorate-Granting Institution	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
KANSAS	2	1	2	—	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
SOUTH ATLANTIC	23	18	19	12	15	22	20	20	9	15	11	11	23	11	16	21	22	11	18
DELAWARE	1	1	1	—	1	1	1	1	—	1	1	1	1	—	1	1	1	—	1
MARYLAND	2	2	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
DIST OF COLUMBIA	5	4	4	1	3	4	4	4	—	2	—	2	4	1	3	4	4	1	3
VIRGINIA	3	2	2	2	2	3	2	2	1	2	2	2	3	1	2	3	3	1	2
WEST VIRGINIA	1	—	1	—	1	1	1	1	1	1	1	—	1	1	1	1	1	—	1
NORTH CAROLINA	3	3	3	2	3	3	2	2	2	3	1	2	4	2	3	3	4	3	3
SOUTH CAROLINA	2	1	2	1	1	2	2	2	1	2	2	—	3	2	1	2	2	—	1
GEORGIA	3	2	2	2	1	3	3	3	—	1	1	1	2	1	1	2	2	2	2
FLORIDA	3	3	2	2	1	3	3	3	3	1	1	1	3	2	2	3	3	3	3
EAST SOUTH CENTRAL	9	6	4	4	4	7	7	7	1	7	5	5	8	4	5	8	8	4	7
KENTUCKY	2	1	1	1	1	2	2	2	—	2	1	—	2	1	1	2	2	1	2
TENNESSEE	3	3	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
ALABAMA	2	2	1	1	1	2	2	2	—	2	1	2	2	1	1	2	2	2	2
MISSISSIPPI	2	—	—	—	—	1	1	1	—	1	1	1	2	1	1	2	2	—	1
WEST SOUTH CENTRAL	12	8	9	4	9	11	11	11	6	10	9	7	12	4	8	12	10	4	7
ARKANSAS	1	—	1	—	1	1	1	1	—	1	1	1	1	1	1	1	1	—	—
LOUISIANA	2	2	2	1	2	2	2	2	2	2	2	—	2	1	2	2	2	—	2
OKLAHOMA	2	2	2	1	2	2	2	2	1	2	2	2	2	1	2	2	2	2	2
TEXAS	7	4	4	2	4	6	6	6	3	5	4	4	7	1	3	7	5	2	3
MOUNTAIN	17	9	12	6	8	13	12	11	13	13	7	8	12	6	4	10	8	8	11
MONTANA	2	1	—	—	—	1	1	1	1	1	1	1	2	1	—	1	1	1	2
IDAHO	1	1	—	—	—	1	1	1	1	1	1	—	1	1	—	1	1	1	1
WYOMING	1	—	—	—	—	1	1	1	1	1	—	—	1	1	—	1	—	1	1
COLORADO	4	2	4	2	2	3	2	2	3	4	2	2	2	1	2	2	2	2	2

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
2	2	—	1	2	1	3	1	2	1	—	—	2	1	1	—	—	2	3	KANSAS
20	16	3	10	14	13	18	17	13	12	4	9	2	7	15	5	5	16	29	SOUTH ATLANTIC
1	1	—	—	—	—	1	1	1	—	—	—	—	—	1	—	—	1	1	DELAWARE
2	2	1	2	2	2	3	2	2	2	1	2	—	2	3	—	2	2	4	MARYLAND
4	3	1	2	4	4	5	5	2	3	1	2	—	1	4	2	1	3	5	DIST OF COLUMBIA
2	1	—	—	2	1	1	1	1	1	1	1	—	—	1	—	—	1	3	VIRGINIA
1	1	—	—	—	—	1	1	—	—	—	—	—	1	—	—	—	1	1	WEST VIRGINIA
3	2	1	3	3	2	2	2	2	2	1	2	—	1	3	1	1	3	6	NORTH CAROLINA
2	1	—	—	1	—	1	1	1	—	—	—	—	—	—	—	—	1	3	SOUTH CAROLINA
2	2	—	1	1	2	2	2	2	2	—	1	—	1	1	1	1	1	3	GEORGIA
3	3	—	2	1	2	2	2	2	2	—	1	2	1	2	1	—	3	3	FLORIDA
9	8	—	4	5	4	9	7	7	4	1	2	1	1	6	2	1	8	10	EAST SOUTH CENTRAL
2	2	—	1	1	1	1	1	1	1	—	—	—	—	1	—	—	2	2	KENTUCKY
3	3	—	2	2	2	3	3	3	2	1	2	—	1	2	—	1	2	3	TENNESSEE
1	1	—	—	1	1	2	1	2	1	—	—	—	—	1	1	—	2	2	ALABAMA
3	2	—	1	1	—	3	2	1	—	—	—	1	—	2	1	—	2	3	MISSISSIPPI
14	12	2	3	10	4	11	6	9	6	2	4	4	4	5	4	—	13	17	WEST SOUTH CENTRAL
1	1	—	—	1	—	1	—	1	1	—	1	—	—	1	1	—	1	1	ARKANSAS
2	2	1	2	2	2	2	2	2	2	1	1	2	1	1	1	—	1	2	LOUISIANA
2	2	—	—	2	1	1	1	1	1	—	—	1	—	1	1	—	3	3	OKLAHOMA
9	7	1	1	5	1	7	3	5	2	1	2	1	3	2	1	—	8	11	TEXAS
12	10	4	3	4	5	8	7	6	4	2	2	2	5	3	2	1	13	18	MOUNTAIN
1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	2	MONTANA
1	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	1	1	IDAHO
1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	WYOMING
3	3	1	1	1	2	2	2	2	1	1	1	1	2	1	1	—	3	5	COLORADO

TABLE 6

(continued)

Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field

State of Doctorate-Granting Institution	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
NEW MEXICO	3	2	2	2	2	1	1	1	2	2	1	2	1	—	—	1	—	—	1
ARIZONA	2	2	2	1	2	2	2	2	1	2	1	2	2	1	1	1	1	1	2
UTAH	3	1	3	1	2	3	3	3	3	2	1	1	3	1	1	3	3	2	2
NEVADA	1	—	1	—	—	1	1	—	1	—	—	—	—	—	—	—	—	—	—
PACIFIC	19	12	15	8	12	17	14	15	14	10	8	8	18	8	10	17	16	12	13
WASHINGTON	2	2	2	1	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2
OREGON	2	2	2	—	2	2	2	2	2	1	1	1	2	1	2	2	2	2	2
CALIFORNIA	13	8	10	7	8	12	9	10	8	7	6	6	12	4	6	11	11	6	8
ALASKA	1	—	1	—	—	—	—	—	1	—	—	—	1	—	—	1	—	1	—
HAWAII	1	—	—	—	—	1	1	1	1	—	—	—	1	1	—	1	1	1	1

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
1	1	1	—	—	—	1	1	1	1	—	—	—	—	—	—	—	1	3	NEW MEXICO
2	2	1	—	1	1	2	1	2	1	—	—	—	1	—	—	—	2	2	ARIZONA
3	3	1	2	1	1	2	2	1	1	1	1	1	2	2	1	1	3	3	UTAH
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	NEVADA
14	11	6	8	10	8	15	12	13	9	5	8	5	6	11	6	3	11	23	PACIFIC
2	2	1	2	2	1	2	2	2	1	1	1	1	1	2	1	—	2	2	WASHINGTON
3	2	1	2	2	1	1	1	1	1	—	—	1	—	2	1	—	3	3	OREGON
8	6	4	4	5	6	11	8	10	6	4	7	3	5	7	4	3	6	16	CALIFORNIA
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	ALASKA
1	1	—	—	1	—	1	1	—	1	—	—	—	—	—	—	—	—	1	HAWAII

TABLE 7

Doctorate Recipients by State and the Number Who Attended High School in the Same State, FY 1964 - 1966

State of Doctoral Institution	Number of Doctorate Recipients FY 1964-66	Doctorates Attending H S in Same State N	%
MAINE	21	6	28.6
NEW HAMPSHIRE	61	9	14.8
VERMONT	24	3	12.5
MASSACHUSETTS	3,259	452	13.9
RHODE ISLAND	302	26	8.6
CONNECTICUT	1,115	118	10.6
NEW YORK	5,646	2,240	39.7
NEW JERSEY	1,168	230	19.7
PENNSYLVANIA	2,588	995	38.5
OHIO	1,899	668	35.2
INDIANA	2,273	362	15.9
ILLINOIS	3,415	833	24.4
MICHIGAN	2,540	668	26.3
WISCONSIN	1,590	330	20.8
MINNESOTA	1,075	328	30.5
IOWA	1,293	313	24.2
MISSOURI	859	277	32.3
NORTH DAKOTA	98	30	30.6
SOUTH DAKOTA	34	7	20.6
NEBRASKA	337	139	41.3
KANSAS	539	148	27.5
DELAWARE	143	11	7.7
MARYLAND	858	118	13.8
DIST OF COLUMBIA	834	42	5.0
VIRGINIA	378	96	25.4
WEST VIRGINIA	94	36	38.3
NORTH CAROLINA	1,128	215	19.1
SOUTH CAROLINA	89	28	31.5
GEORGIA	406	127	31.3
FLORIDA	860	151	17.6
KENTUCKY	200	81	40.5
TENNESSEE	625	165	26.4
ALABAMA	263	106	40.3
MISSISSIPPI	165	52	31.5
ARKANSAS	179	71	39.7
LOUISIANA	551	145	26.3
OKLAHOMA	760	264	34.7
TEXAS	1,695	851	50.2
MONTANA	76	23	30.3
IDAHO	44	12	27.3
WYOMING	114	10	8.8
COLORADO	996	128	12.9
NEW MEXICO	159	26	16.4
ARIZONA	397	40	10.1
UTAH	441	195	44.2
NEVADA	5	—	—
WASHINGTON	883	194	22.0
OREGON	686	117	17.1
CALIFORNIA	5,241	1,449	27.7
ALASKA	10	—	—
HAWAII	63	8	12.7

Region of Doctoral Institution	Number of Doctorate Recipients FY 1964-66	Doctorates Attending H S in Same Region N	%
NEW ENGLAND	4,782	1,017	21.3
MIDDLE ATLANTIC	9,402	4,763	50.7
EAST NO. CENTRAL	11,717	4,526	38.6
WEST NO. CENTRAL	4,235	1,871	44.2
SOUTH ATLANTIC	4,790	1,532	32.0
EAST SO. CENTRAL	1,253	558	44.5
WEST SO. CENTRAL	3,185	1,685	52.9
MOUNTAIN	2,232	614	27.5
PACIFIC	6,883	2,306	33.5
REGION UNKNOWN	12	—	—
U.S. TOTAL	48,491	18,872	38.9

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER II THE PROCESS OF DOCTORAL EDUCATION

- DEGREE PATTERNS AND INSTITUTIONAL TRANSFER PATTERNS
- PARENTAL EDUCATION
- DOCTORAL ADVISEES PER ADVISER
- CORRELATES OF INSTITUTION SIZE
- CORRELATES OF BACCALAUREATE-TO-DOCTORATE TIME LAPSE

The patterns of doctoral education in the United States are varied and complex. Uniformities that characterize high-school and undergraduate patterns—continuous, full-time attendance at one institution for four years—disappear at the graduate level. Some doctoral candidates begin graduate work immediately upon receipt of the baccalaureate, and some postpone entrance for many years; some take a master's degree as part of the doctoral program, and some do not; some take all their graduate work at one institution, and some transfer; some take their baccalaureate, master's, and doctoral degrees in the same field, and some shift fields.

Because the Doctorate Records File contains the academic histories of the doctorate recipients, it is possible to trace in some detail the varied paths followed by students and to investigate the relations among such variables as field choice, type of undergraduate institution, type of graduate institution, and time lapse from baccalaureate to doctorate. This chapter presents data that describe some aspects of the doctoral education process.

DEGREE PATTERNS AND INSTITUTIONAL TRANSFER PATTERNS

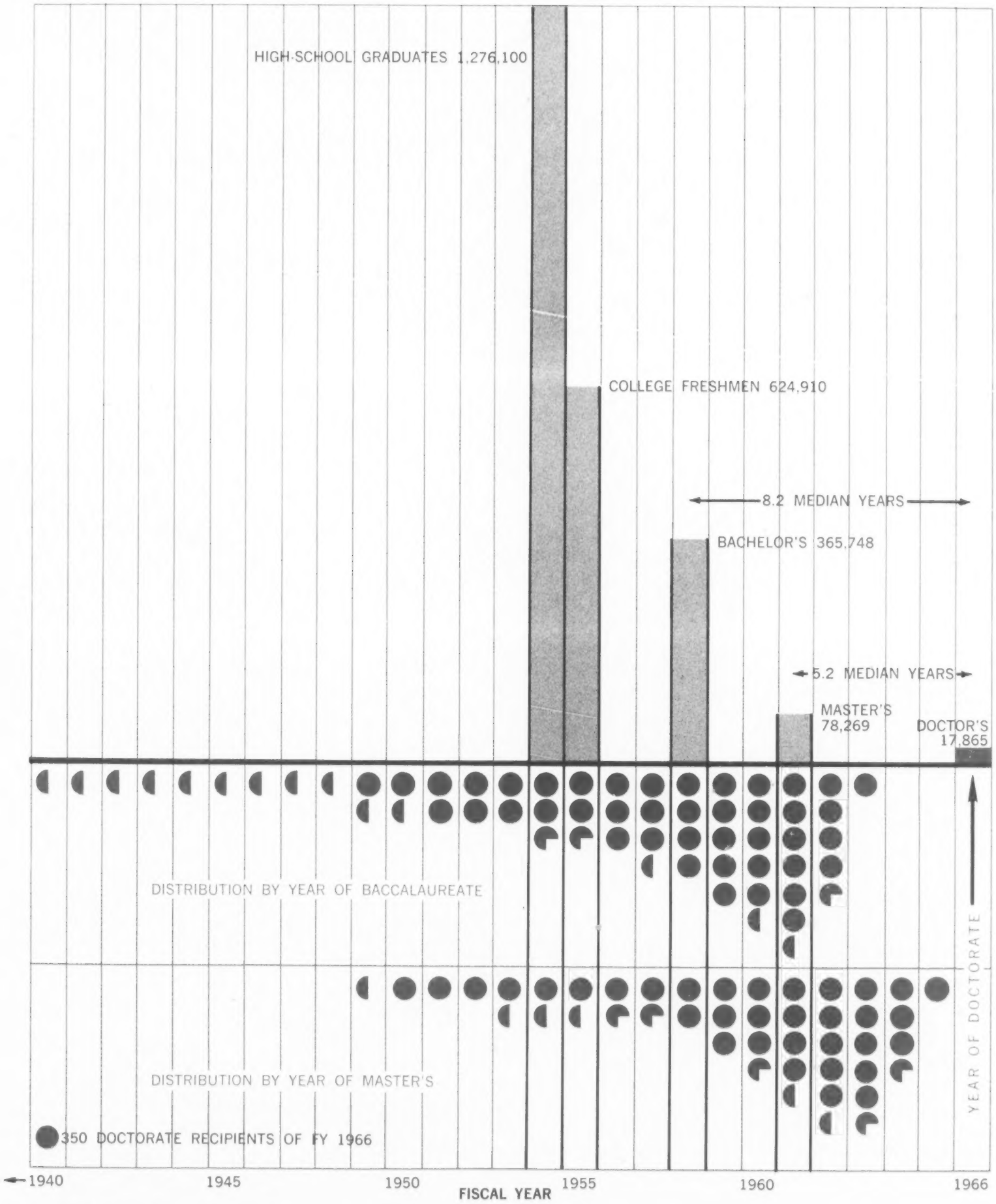
Degree Patterns

A summary of the academic history of the 17,865 doctorate recipients of FY 1966 is presented graphically in Figure 9. One out of nine had received the baccalaureate during or after 1962 and had completed all doctoral requirements in four or fewer years. In contrast, one out of seven received the baccalaureate prior to 1950, attended graduate school after some years of nonacademic experience, and completed doctoral requirements in 16 or more years. Half of the group received baccalaureates during or after FY 1958: The median time lapse from baccalaureate to doctorate was 8.2 years.

Eighty percent of the 1966 doctorate recipients took master's degrees during their graduate programs. One in eight received the master's degree during or after 1964, and about one in seven received the master's degree prior to 1955. The median time lapse from master's to doctorate was 5.2 years. The baccalaureate-to-doctorate and master's-to-doctorate time-lapse distributions are shown to scale in the bottom part of Figure 9.

The vertical bars in the upper part of the figure represent graphically certain reference statistics of the United States educational system from high school to doctorate. The 17,865 doctorate recipients are shown at year 1966.

FIGURE 9
REFERENCE STATISTICS OF U. S. DOCTORAL EDUCATION, FY 1966.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
USOE, *Digest of Educational Statistics, 1966*, p. 50 (OE-10024-66).
USOE, *Opening Fall Enrollment, 1954* (OE-54003).
USOE, *Earned Degrees Conferred, 1963–64*, p. 5 (OE-54013-64).

Then, going back the median number of years (5) from doctorate to master's, the total master's degree population of 1961 is shown. In like manner, the median baccalaureate-to-doctorate time lapse was 8 years, so the total United States baccalaureate population of 1958 is represented. The beginning college-freshman enrollment and high-school graduating class are taken 3 and 4 years respectively prior to the baccalaureate year.

The data in Figure 9 represent cross sections of the educational stream at different levels and at different points in time. The classes represented are somewhat arbitrarily chosen, because criteria other than median time lapse could have been employed in selection. Also, it should be noted that only a few of the 1966 doctorate recipients were members of these particular classes. Nevertheless, the general pattern and the associated ratios are probably of good accuracy.

The percentage of the doctorate recipients who shifted fields as they progressed up the educational ladder and their tendency to omit the master's degree are strongly related to doctoral field. Figure 10 and the associated Table 8 illustrate these points. Appendix F shows the detailed pattern of baccalaureate-to-doctorate field shifting.

The physical sciences and engineering fields are highly self-contained. Only 7 percent of the doctorate recipients in these fields took baccalaureates in a non-physical-science field, and only 2 percent had master's degrees from outside fields. Table 8 shows that 70 - 89 percent remained within a specific subfield of the physical sciences.

The biological sciences drew 25 percent of their doctoral students from other broad fields. Physiology and biochemistry recruited almost half of their doctorate recipients from the physical sciences. Table 8 data show very low retention rates from the baccalaureate to the doctorate within specific subfields of the biological sciences. This may indicate less precise field differentiation at the baccalaureate level in those fields than in the physical sciences.

The social sciences recruit one third of their doctoral students from other fields and have about 50 percent retention within subfield between the baccalaureate and doctorate. The arts and humanities resemble the physical sciences in that they recruit very few from other fields at either the baccalaureate or master's levels, and they show high retention rates within subfields.

The professional fields and education obtain over half of their doctoral students from other fields, and almost one fourth of the education doctorates received master's degrees from outside fields.

The above data suggest that the student in certain fields must decide upon a graduate major in the field as an undergraduate whereas other fields permit extensive inflow during the graduate program.

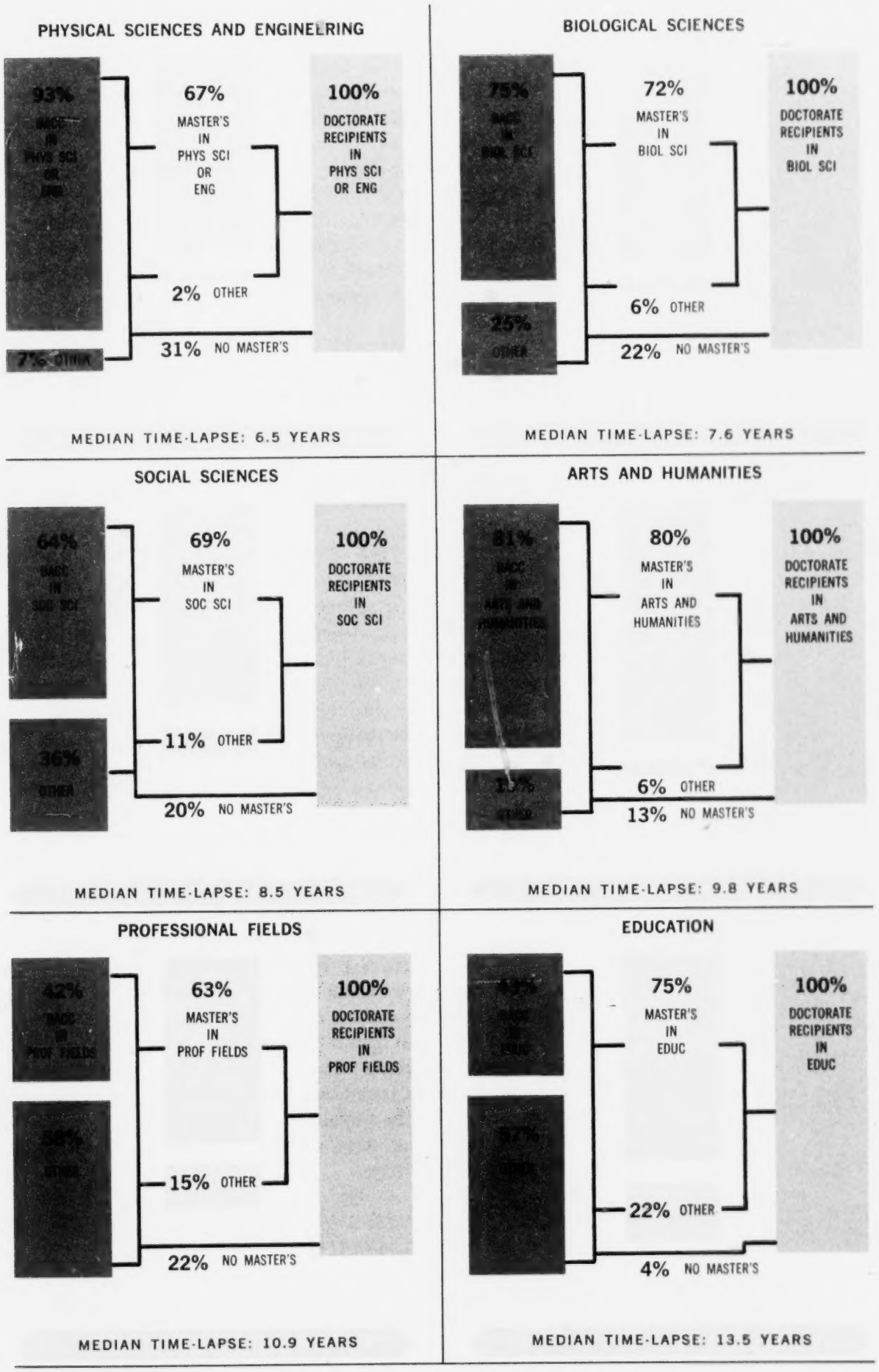
Figure 10 and Table 8 indicate also the field variation in the percentage of doctorate recipients who take master's degrees, and they show the average time lapse from baccalaureate to doctorate for the fields. In general, those fields, such as the physical sciences, that have little field transfer between baccalaureate and doctorate have the largest percentages of students bypassing the master's degree.

Institutional Transfer Patterns

Figure 11 and Table 9 (pp. 46-49) show the types of undergraduate institutions attended by the 1964 - 1966 doctorate recipients. The data displayed in Table 9 were analyzed for the years 1958 - 1960 and 1961 - 1963 as well as for 1964 - 1966, but the only significant trend was an increase in the percentage coming from foreign baccalaureate institutions (11.0 - 13.5), so only the FY 1964 - 1966 data are shown in the table.

The United States baccalaureate-source institutions are classified by the use of three variables: (1) highest degree granted (bachelor's, master's, doctorate); (2) control (public, private); (3) size (large, small). Enrollments used to classify institutions as large or small were chosen so as to divide the institutions within a "degree control" category into two approximately equal groups. All foreign baccalaureate institutions were grouped into a 13th category.

FIGURE 10
FIELD CHANGES:
BACCALAUREATE TO MASTER'S
TO DOCTORATE, FY 1958-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 8

Field Changes from Baccalaureate to Master's to Doctorate, by Field of Doctorate, FY 1958 - 1966

Field of Doctorate	Doctorate Recipients FY 1958-66 N	Field of Master's: Same as Doctorate % of MS	Field of Master's: Different from Doctorate % of MS	No Master's % of N	Field of Baccalaureate: Same as Doctorate % of BS	Field of Baccalaureate: Different from Doctorate % of BS	Median Time Lapse Bacc to Doctorate (total time)
TOTAL ALL FIELDS	110,845	81	19	20	60	40	8.5 yrs
PHYSICAL SCIENCES AND ENGINEERING*	35,950	97	3	31	93	7	6.5
MATHEMATICS	4,062	90	10	23	70	30	6.4
PHYSICS AND ASTRONOMY	6,626	91	9	36	75	25	6.6
CHEMISTRY	11,040	91	9	54	85	15	5.7
EARTH SCIENCES	2,577	92	8	22	74	26	7.6
ENGINEERING	11,645	95	5	13	89	11	7.0
BIOLOGICAL SCIENCES*	18,679	93	7	22	75	25	7.6
AGRICULTURE AND FORESTRY	4,130	90	10	11	75	25	7.7
HEALTH SCIENCES	2,006	78	22	19	52	48	8.6
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	4,892	49	51	34	8	92	7.0
ANAT, CYTOL, ENTOMOL, GENET	4,271	67	33	21	21	79	7.7
ECOLOGY, HYDROBIOLOGY	375	34	66	15	6	94	7.8
BOT, ZOOL, GEN BIOL, OTHER	3,005	83	17	21	71	29	7.7
SOCIAL SCIENCES*	18,149	86	14	20	64	36	8.5
PSYCHOLOGY	7,975	85	15	22	64	36	7.6
ANTHROPOLOGY AND ARCHEOLOGY	740	78	22	35	42	58	9.4
SOCIOLOGY	1,760	75	25	13	43	57	9.6
ECON AND ECONOMETRICS	4,000	79	21	20	51	49	8.6
POLIT SCI AND INT RELAT	2,628	82	18	18	51	49	9.1
ARTS AND HUMANITIES*	15,463	93	7	13	81	19	9.8
HISTORY	3,921	86	14	12	66	34	9.3
ENGLISH AND AMERICAN LANG AND LIT	4,251	94	6	10	77	23	10.0
MODERN FOREIGN LANG AND LIT	2,558	84	16	21	59	41	9.9
CLASSIC LANG AND LIT	514	79	21	24	59	41	8.6
PHILOSOPHY	1,236	83	17	28	58	42	8.3

TABLE 8

(continued)

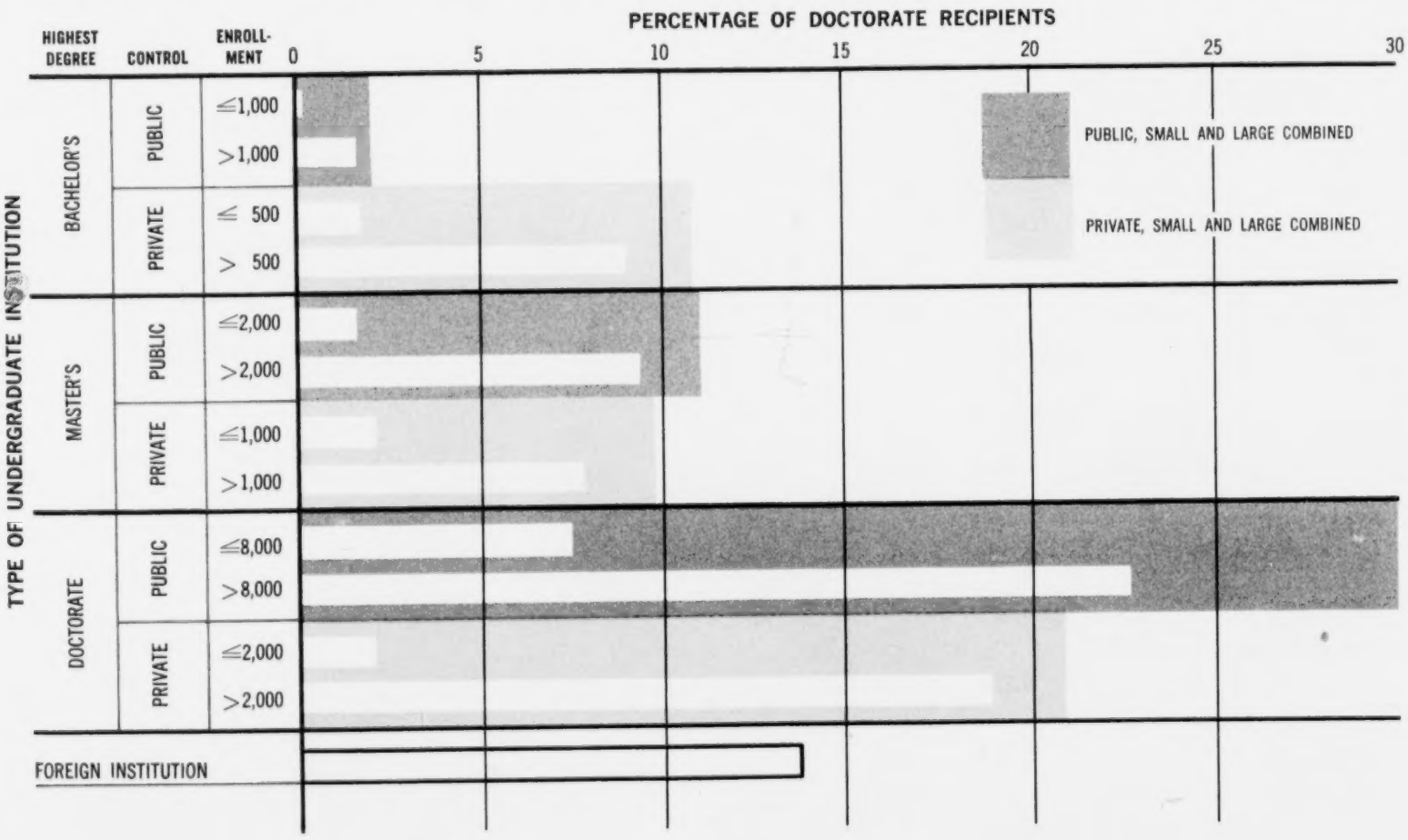
Field of Doctorate	Doctorate Recipients FY 1958-66 N	Field of Master's: Same as Doctorate % of MS	Field of Master's: Different from Doctorate % of MS	No Master's % of N	Field of Baccalaureate: Same as Doctorate % of BS	Field of Baccalaureate: Different from Doctorate % of BS	Median Time Lapse Bacc to Doctorate (total time)
SPEECH AND DRAMATIC ARTS	1,560	82	18	4	52	48	10.0 yrs
FINE ARTS AND MUSIC	1,320	90	10	8	72	28	11.7
PROFESSIONAL FIELDS*	4,207	81	19	22	42	58	10.9
BUSINESS ADMINISTRATION	1,869	85	15	6	55	45	9.8
RELIGION AND THEOLOGY	1,428	75	25	47	19	81	11.2
EDUCATION	18,397	77	23	4	43	57	13.5

*Percentages for summary fields are based on doctorate recipients who received their baccalaureate or master's degree in any field within the summary field.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 11

TYPES OF UNDERGRADUATE INSTITUTIONS AS SOURCES OF DOCTORATE RECIPIENTS, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 9

Doctorate Recipients by Type of Undergraduate Institution and by Field of Doctorate, FY 1964 - 1966

Field of Doctorate		Doctorate Recipients by Type of Undergraduate Institution														Total Doctorate Recipients FY 1964-66
		Baccalaureate				Master's				Doctorate				Unknown Type U.S.	Foreign Insts.	
		Public		Private		Public		Private		Public		Private				
		≤1,000	>1,000	≤500	>500	≤2,000	>2,000	≤1,000	>1,000	≤8,000	>8,000	≤2,000	>2,000			
TOTAL ALL FIELDS	N	160	836	829	4,368	796	4,622	987	3,803	3,565	10,992	1,012	9,145	822	6,554	48,491
	%	.33	1.72	1.71	9.01	1.64	9.53	2.04	7.84	7.35	22.67	2.09	18.86	1.70	13.52	100.01
PHYSICAL SCIENCES AND ENGINEERING	N	14	208	158	1,190	111	982	249	1,133	1,200	3,856	468	3,845	254	2,799	16,467
	%	.09	1.26	.96	7.23	.67	5.96	1.51	6.88	7.29	23.42	2.84	23.35	1.54	17.00	100.00
MATHEMATICS	N	6	22	30	169	30	138	46	155	107	410	62	541	27	297	2,040
	%	.29	1.08	1.47	8.28	1.47	6.76	2.25	7.60	5.25	20.10	3.04	26.52	1.32	14.56	99.99
PHYSICS AND ASTRONOMY	N	—	39	29	211	7	164	75	251	175	594	123	818	69	404	2,959
	%	—	1.32	.98	7.13	.24	5.54	2.53	8.48	5.91	20.07	4.16	27.64	2.33	13.65	99.98
Elementary Particles	N	—	3	3	23	1	23	16	35	20	106	30	152	2	74	488
	%	—	.61	.61	4.71	.20	4.71	3.28	7.17	4.10	21.72	6.15	31.15	.41	15.16	99.98
Solid State	N	—	12	10	72	5	45	18	71	41	159	25	225	11	111	805
	%	—	1.49	1.24	8.94	.62	5.59	2.24	8.82	5.09	19.75	3.11	27.95	1.37	13.79	100.00
CHEMISTRY	N	6	57	92	591	45	394	93	437	296	777	108	814	49	611	4,370
	%	.14	1.30	2.11	13.52	1.03	9.02	2.13	10.00	6.77	17.78	2.47	18.63	1.12	13.98	100.00
Organic	N	2	24	37	275	14	167	42	200	101	300	45	338	10	225	1,780
	%	.11	1.35	2.08	15.45	.79	9.38	2.36	11.24	5.67	16.85	2.53	18.99	.56	12.64	100.00
Physical	N	1	18	20	155	18	110	29	122	93	194	37	266	9	153	1,225
	%	.08	1.47	1.63	12.65	1.47	8.98	2.37	9.96	7.59	15.84	3.02	21.71	.73	12.49	99.99
EARTH SCIENCES	N	—	4	2	66	9	66	6	85	90	309	30	222	20	176	1,085
	%	—	.37	.18	6.08	.83	6.08	.55	7.83	8.29	28.48	2.76	20.46	1.84	16.22	99.97
ENGINEERING	N	2	86	5	153	20	220	29	205	532	1,766	145	1,450	89	1,311	6,013
	%	.03	1.43	.08	2.54	.33	3.66	.48	3.41	8.85	29.37	2.41	24.11	1.48	21.80	99.98
Chemical	N	—	7	—	35	4	40	2	38	113	306	30	265	10	157	1,007
	%	—	.70	—	3.48	.40	3.97	.20	3.77	11.22	30.39	2.98	26.32	.99	15.59	100.01
Electrical	N	—	15	2	27	4	56	5	37	77	365	24	326	18	253	1,209
	%	—	1.24	.17	2.23	.33	4.63	.41	3.06	6.37	30.19	1.99	26.96	1.49	20.93	100.00

TABLE 9

(continued)

Field of Doctorate		Doctorate Recipients by Type of Undergraduate Institution														
		Baccalaureate				Master's				Doctorate				Unknown Type U.S.	Foreign Insts.	Total Doctorate Recipients FY 1964-66
		Public		Private		Public		Private		Public		Private				
		≤1,000	>1,000	≤500	>500	≤2,000	>2,000	≤1,000	>1,000	≤8,000	>8,000	≤2,000	>2,000			
BIOLOGICAL SCIENCES	N	20	102	119	645	81	576	143	461	960	1,990	121	953	64	1,676	7,911
	%	.25	1.29	1.50	8.15	1.02	7.28	1.81	5.83	12.14	25.15	1.53	12.05	.81	21.19	100.00
AGRICULTURE AND FORESTRY	N	2	25	6	32	8	78	5	16	354	570	3	51	3	512	1,665
	%	.12	1.50	.36	1.92	.48	4.68	.30	.96	21.26	34.23	.18	3.06	.18	30.75	99.98
HEALTH SCIENCES	N	4	5	8	50	3	25	16	40	86	235	26	141	9	208	856
	%	.47	.58	.93	5.84	.35	2.92	1.87	4.67	10.05	27.45	3.04	16.47	1.05	24.30	99.99
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	N	5	22	43	239	21	168	48	202	203	408	46	373	18	416	2,212
	%	.23	.99	1.94	10.80	.95	7.59	2.17	9.13	9.18	18.44	2.08	16.86	.81	18.81	99.98
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	N	6	19	32	167	18	150	35	107	181	446	27	235	8	378	1,809
	%	.33	1.05	1.77	9.23	1.00	8.29	1.93	5.91	10.01	24.65	1.49	12.99	.44	20.90	99.99
ECOLOGY AND HYDROBIOLOGY	N	1	2	1	11	—	21	8	8	14	41	1	16	1	15	140
	%	.71	1.43	.71	7.86	—	15.00	5.71	5.71	10.00	29.29	.71	11.43	.71	10.71	99.98
BOTANY, ZOOLOGY, GEN BIOLOGY	N	2	29	29	146	31	134	31	88	122	290	18	137	25	147	1,229
	%	.16	2.36	2.36	11.88	2.52	10.90	2.52	7.16	9.93	23.60	1.46	11.15	2.03	11.96	99.99
SOCIAL SCIENCES	N	10	85	116	589	49	828	192	657	414	1,751	133	1,499	120	904	7,347
	%	.14	1.16	1.58	8.02	.67	11.27	2.61	8.94	5.63	23.83	1.81	20.40	1.63	12.30	99.99
PSYCHOLOGY	N	1	19	51	289	15	482	80	336	130	761	67	680	33	157	3,101
	%	.03	.61	1.64	9.32	.48	15.54	2.58	10.84	4.19	24.54	2.16	21.93	1.06	5.06	99.98
ANTHROPOLOGY AND ARCHEOLOGY	N	—	2	4	19	—	19	5	17	20	88	4	65	9	42	294
	%	—	.68	1.36	6.46	—	6.46	1.70	5.78	6.80	29.93	1.36	22.11	3.06	14.29	99.99
SOCIOLOGY	N	—	10	21	72	5	90	21	60	32	166	8	120	10	83	698
	%	—	1.43	3.01	10.32	.72	12.89	3.01	8.60	4.58	23.78	1.15	17.19	1.43	11.89	100.00
ECONOMICS AND ECONOMETRICS	N	5	16	20	91	9	95	34	104	157	430	22	311	23	392	1,709
	%	.29	.94	1.17	5.32	.53	5.56	1.99	6.09	9.19	25.16	1.29	18.20	1.35	22.94	100.02
POLIT SCIENCE AND INT RELATIONS	N	2	29	16	92	9	83	40	114	57	215	24	245	40	162	1,128
	%	.18	2.57	1.42	8.16	.80	7.36	3.55	10.11	5.05	19.06	2.13	21.72	3.55	14.36	100.02

TABLE 9

(continued)

Field of Doctorate		Doctorate Recipients by Type of Undergraduate Institution: Baccalaureate, Public ≤1,000	Baccalaureate, Public >1,000	Baccalaureate, Private ≤500	Baccalaureate, Private >500	Master's, Public ≤2,000	Master's, Public >2,000	Master's, Private ≤1,000	Master's, Private >1,000	Doctorate, Public ≤8,000	Doctorate, Public >8,000	Doctorate, Private ≤2,000	Doctorate, Private >2,000	Unknown Type U.S.	Foreign Insts.	Total Doctorate Recipients FY 1964-66
ARTS AND HUMANITIES	N	14	108	168	858	66	599	229	739	311	1,238	159	1,593	184	539	6,805
	%	.21	1.59	2.47	12.61	.97	8.80	3.37	10.86	4.57	18.19	2.34	23.41	2.70	7.92	100.01
HISTORY	N	5	34	59	262	22	148	50	199	82	296	44	432	47	99	1,779
	%	.28	1.91	3.32	14.73	1.24	8.32	2.81	11.19	4.61	16.64	2.47	24.28	2.64	5.56	100.00
ENGLISH AND AMERICAN LANG AND LIT	N	3	33	54	248	16	187	64	217	100	311	49	444	41	96	1,863
	%	.16	1.77	2.90	13.31	.86	10.04	3.44	11.65	5.37	16.69	2.63	23.83	2.20	5.15	100.00
MODERN FOREIGN LANG AND LIT	N	1	12	15	111	2	75	24	94	49	251	35	270	40	227	1,206
	%	.08	1.00	1.24	9.20	.17	6.22	1.99	7.79	4.06	20.81	2.90	22.39	3.32	18.82	99.99
CLASSIC LANGUAGE AND LITERATURE	N	—	—	8	32	—	8	12	25	6	25	8	65	10	38	237
	%	—	—	3.38	13.50	—	3.38	5.06	10.55	2.53	10.55	3.38	27.43	4.22	16.03	100.01
PHILOSOPHY	N	—	1	11	65	—	12	25	60	14	88	9	141	29	31	486
	%	—	.21	2.26	13.37	—	2.47	5.14	12.35	2.88	18.11	1.85	29.01	5.97	6.38	100.00
SPEECH AND DRAMATIC ARTS	N	4	21	17	84	20	118	17	68	33	164	3	103	4	14	670
	%	.60	3.13	2.54	12.54	2.99	17.61	2.54	10.15	4.93	24.48	.45	15.37	.60	2.09	100.02
FINE ARTS AND MUSIC	N	1	7	3	55	6	45	35	73	26	96	10	122	11	28	518
	%	.19	1.35	.58	10.62	1.16	8.69	6.76	14.09	5.02	18.53	1.93	23.55	2.12	5.41	100.00
PROFESSIONAL FIELDS	N	5	30	53	200	13	111	28	161	125	431	22	342	92	247	1,860
	%	.27	1.61	2.85	10.75	.70	5.97	1.51	8.66	6.72	23.17	1.18	18.39	4.95	13.28	100.01
BUSINESS ADMINISTRATION	N	3	19	11	58	5	71	7	58	71	293	4	181	13	107	901
	%	.33	2.11	1.22	6.44	.55	7.88	.78	6.44	7.88	32.52	.44	20.09	1.44	11.88	100.00
RELIGION AND THEOLOGY	N	—	4	35	126	2	11	17	77	13	44	17	118	36	50	550
	%	—	.73	6.36	22.91	.36	2.00	3.09	14.00	2.36	8.00	3.09	21.45	6.55	9.09	99.99
EDUCATION	N	97	303	215	886	476	1,526	146	652	555	1,726	109	913	108	389	8,101
	%	1.20	3.74	2.65	10.94	5.88	18.84	1.80	8.05	6.85	21.31	1.35	11.27	1.33	4.80	100.01

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Certain summary statistics from Table 9 show the general pattern. When only the United States institutions are considered, the percentage of doctorate recipients from a given type of baccalaureate source is roughly proportional to the percentage of all undergraduates enrolled in that type of institution:

Type of Baccalaureate-Source Institution		Percentage of all Undergraduates Enrolled (1960)	Percentage of 1964-66 Doctorates Receiving Baccalaureate Degree From This Type of Institution
Baccalaureate	—public	4.9	2.4
	private	14.1	12.6
Master's	—public	20.1	13.2
	private	13.0	11.6
Doctorate	—public	30.7	35.4
	private	17.1	24.7

The totals by type of control divide almost evenly between public and private (43.2 percent and 41.6 percent, respectively); the remainder are foreign institutions.

However, Table 9 reveals some marked field variations from the over-all pattern. Only 2 percent of the religion and theology majors received baccalaureates at large public master's-granting institutions, but 19 percent of the education majors came from these institutions. One third of the elementary particle physicists came from large private institutions, but fewer than one in thirty of the agriculture majors attended such institutions.

Foreign institutions were major baccalaureate sources for many, but not all, fields; 31 percent of the majors in agriculture were foreign, but, in contrast, only 2 percent of the doctorate recipients in speech and dramatic arts were from foreign baccalaureate institutions.

Trends and patterns that occur in the shift from baccalaureate to doctoral institution are displayed in Table 10. Increasing percentages of predoctoral students take graduate work at the smaller public doctorate-granting institutions, and a corresponding drop is occurring in the percentage receiving doctorates at large private institutions.

The transition from baccalaureate to doctoral institution results in a net gain for the public institutions. About two thirds of the students remain in the same general type of institution, going from public to public or private to private. The remaining one third shift from one type to another, but the majority of these go from private to public institution. Thus, 51 percent of the United States doctorate recipients attended public undergraduate institutions, and 59 percent attended public doctoral institutions.

There were no strong sex differences in the patterns of transfer. Women were a little more likely to attend private institutions—only 45 percent came from public undergraduate schools, and 48 percent went to public graduate schools.

Certain patterns of institutional transfer occur as the students progress from baccalaureate to master's to doctoral degree. Tables 11 and 12 (pp. 53-56) show the patterns. A student in pattern A remains in the same institution for all three degrees. One in pattern B remains in a single institution but omits the master's degree. A student in pattern C receives the baccalaureate at one institution and then attends one different graduate school for the master's and doctorate. The remaining patterns for United States doctoral students are indicated in the table. Patterns of doctoral students from foreign countries are shown in G through K.

TABLE 10

Doctorate Recipients by Type of Undergraduate and Doctorate-Granting Institution, FY 1958 - 1966

Type of Undergraduate Institution					Doctorate Recipients by Type of Doctorate-Granting Institution					
					Public		Private		Inst Type	Total
Highest Degree	Control	Enroll-ment	Fiscal Years of Doctorate		≤8,000	>8,000	≤2,000	>2,000	Unknown	Doctorate Recipients
TOTAL ALL TYPES			1958-60	N	1,606	12,898	722	12,455	35	27,716
				%	5.79	46.54	2.60	44.94	.13	100.00
			1961-63	N	2,560	16,524	938	14,497	119	34,638
				%	7.39	47.70	2.71	41.85	.34	99.99
			1964-66	N	4,650	23,211	1,319	18,718	593	48,491
				%	9.59	47.87	2.72	38.60	1.22	100.00
BACCALAUREATE	Public	≤1,000	1958-60	N	22	60	1	29	—	112
				%	19.64	53.57	.89	25.89	—	99.99
			1961-63	N	21	75	3	47	1	147
				%	14.29	51.02	2.04	31.97	.68	100.00
			1964-66	N	32	88	1	39	—	160
				%	20.00	55.00	.63	24.38	—	100.01
BACCALAUREATE	Public	>1,000	1958-60	N	28	211	13	144	—	396
				%	7.07	53.28	3.28	36.36	—	99.99
			1961-63	N	55	311	13	180	—	559
				%	9.84	55.64	2.33	32.20	—	100.01
			1964-66	N	111	434	13	272	6	836
				%	13.28	51.91	1.56	32.54	.72	100.01
BACCALAUREATE	Private	≤500	1958-60	N	38	209	17	184	1	449
				%	8.46	46.55	3.79	40.98	.22	100.00
			1961-63	N	49	251	18	238	4	560
				%	8.75	44.82	3.21	42.50	.71	99.99
			1964-66	N	113	387	24	287	18	829
				%	13.63	46.68	2.90	34.62	2.17	100.00
BACCALAUREATE	Private	>500	1958-60	N	129	1,187	47	1,035	6	2,404
				%	5.37	49.38	1.96	43.05	.25	100.01
			1961-63	N	199	1,483	82	1,310	13	3,087
				%	6.45	48.04	2.66	42.44	.42	100.01
			1964-66	N	410	2,149	102	1,643	64	4,368
				%	9.39	49.20	2.34	37.61	1.47	100.01
MASTER'S	Public	≤2,000	1958-60	N	45	235	5	143	—	428
				%	10.51	54.91	1.17	33.41	—	100.00
			1961-63	N	101	340	15	143	—	599
				%	16.86	56.76	2.50	23.87	—	99.99
			1964-66	N	144	469	26	152	5	796
				%	18.09	58.92	3.27	19.10	.63	100.01
MASTER'S	Public	>2,000	1958-60	N	125	1,242	64	1,232	5	2,668
				%	4.69	46.55	2.40	46.18	.19	100.01
			1961-63	N	235	1,564	85	1,451	15	3,350
				%	7.01	46.69	2.54	43.31	.45	100.00
			1964-66	N	468	2,268	123	1,669	94	4,622
				%	10.13	49.07	2.66	36.11	2.03	100.00

TABLE 10

(continued)

Type of Undergraduate Institution					Doctorate Recipients by Type of Doctorate-Granting Institution					
					Public		Private		Inst Type	Total
Highest Degree	Control	Enroll-ment	Fiscal Years of Doctorate		≤8,000	>8,000	≤2,000	>2,000	Unknown	Doctorate Recipients
MASTER'S	Private	≤1,000	1958-60	N	33	185	25	365	—	608
				%	5.43	30.43	4.11	60.03	—	100.00
			1961-63	N	35	259	35	445	3	777
				%	4.50	33.33	4.50	57.27	.39	99.99
			1964-66	N	69	331	39	532	16	987
				%	6.99	33.54	3.95	53.90	1.62	100.00
MASTER'S	Private	>1,000	1958-60	N	104	857	56	1,111	6	2,134
				%	4.87	40.16	2.62	52.06	.28	99.99
			1961-63	N	151	1,103	83	1,354	15	2,706
				%	5.58	40.76	3.07	50.04	.55	100.00
			1964-66	N	311	1,570	103	1,754	65	3,803
				%	8.18	41.28	2.71	46.12	1.71	100.00
DOCTORATE	Public	≤8,000	1958-60	N	426	897	49	555	2	1,929
				%	22.08	46.50	2.54	28.77	.10	99.99
			1961-63	N	688	1,154	57	561	6	2,466
				%	27.90	46.80	2.31	22.75	.24	100.00
			1964-66	N	1,178	1,584	65	712	26	3,565
				%	33.04	44.43	1.82	19.97	.73	99.99
DOCTORATE	Public	>8,000	1958-60	N	255	4,625	109	1,683	9	6,681
				%	3.82	69.23	1.63	25.19	.13	100.00
			1961-63	N	412	5,850	122	1,772	24	8,180
				%	5.04	71.52	1.49	21.66	.29	100.00
			1964-66	N	678	7,782	170	2,262	100	10,992
				%	6.17	70.80	1.55	20.58	.91	100.01
DOCTORATE	Private	≤2,000	1958-60	N	27	179	96	268	—	570
				%	4.74	31.40	16.84	47.02	—	100.00
			1961-63	N	20	203	123	338	4	688
				%	2.91	29.51	17.88	49.13	.58	100.01
			1964-66	N	48	328	191	437	8	1,012
				%	4.74	32.41	18.87	43.18	.79	99.99
DOCTORATE	Private	>2,000	1958-60	N	169	1,587	162	4,186	4	6,108
				%	2.77	25.98	2.65	68.53	.07	100.00
			1961-63	N	247	1,906	202	4,593	10	6,958
				%	3.55	27.39	2.90	66.01	.14	99.99
			1964-66	N	404	2,528	276	5,859	78	9,145
				%	4.42	27.64	3.02	64.07	.85	100.00
INSTITUTION TYPE UNKNOWN			1958-60	N	4	60	6	122	—	192
				%	2.08	31.25	3.13	63.54	—	100.00
			1961-63	N	18	71	4	225	6	324
				%	5.56	21.91	1.23	69.44	1.85	99.99
			1964-66	N	38	198	13	539	34	822
				%	4.62	24.09	1.58	65.57	4.14	100.00

TABLE 10

(continued)

Type of Undergraduate Institution					Doctorate Recipients by Type of Doctorate-Granting Institution					
					Public		Private		Inst Type Unknown	Total Doctorate Recipients
Highest Degree	Control	Enroll-ment	Fiscal Years of Doctorate		≤8,000	>8,000	≤2,000	>2,000		
FOREIGN INSTITUTION			1958-60	N	201	1,364	72	1,398	2	3,037
				%	6.62	44.91	2.37	46.03	.07	100.00
			1961-63	N	329	1,954	96	1,840	18	4,237
				%	7.76	46.12	2.27	43.43	.42	100.00
			1964-66	N	646	3,095	173	2,561	79	6,554
				%	9.86	47.22	2.64	39.08	1.21	100.01

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 11

Institutional Transfer: Baccalaureate to Master's to Doctorate, 1950, 1958, 1966

Institutional Transfer Pattern	Doctorate Recipients by Year of Degree					
	1950		1958		1966	
	N	%	N	%	N	%
A. U.S. Bacc = Master's = Doctorate	845	14.4	1,059	13.5	1,948	12.8
B. U.S. Bacc = No Master's Doctorate	348	6.0	316	4.0	574	3.8
C. U.S. Bacc ≠ Master's = Doctorate	1,842	31.4	2,254	28.6	4,328	28.6
D. U.S. Bacc ≠ No Master's Doctorate	1,007	17.2	1,048	13.3	2,450	16.2
E. U.S. Bacc = Master's ≠ Doctorate	738	12.6	1,275	16.2	2,370	15.6
F. U.S. Bacc ≠ Master's ≠ Doctorate	1,076	18.4	1,920	24.4	3,482	23.0
TOTAL FROM U.S. BACCALAUREATE INSTITUTIONS	5,856	100.0	7,872	100.0	15,152	100.0
G. Fgn Bacc ≠ Master's = Doctorate	221	34.0	263	29.3	697	28.5
H. Fgn Bacc ≠ No Master's Doctorate	161	24.8	175	19.5	444	18.2
I. Fgn Bacc ≠ Master's ≠ Doctorate	77	11.8	151	16.9	430	17.6
J. Fgn Bacc = Master's ≠ Doctorate	156	24.0	229	25.5	601	24.6
K. Fgn Bacc ≠ Master's ≠ Doctorate	35	5.4	79	8.8	270	11.1
TOTAL FROM FOREIGN BACCALAUREATE INSTITUTIONS	650	100.0	897	100.0	2,442	100.0

Note: The above totals do not include doctorate recipients whose baccalaureate institution was unknown.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 12

Doctorate Recipients by Institutional Transfer Pattern and Field of Doctorate, FY 1966

Field of Doctorate		Doctorate Recipients by Institutional Transfer Pattern*												
		U.S. Baccalaureate						Foreign Baccalaureate					Bacc Inst Unknown	Total Doctorate Recipients
		A	B	C	D	E	F	G	H	I	J	K		
TOTAL ALL FIELDS	N	1,948	574	4,328	2,450	2,370	3,482	697	444	430	601	270	271	17,865
	%	10.9	3.2	24.2	13.7	13.3	19.5	3.9	2.4	2.4	3.4	1.5	1.5	100.0
PHYS SCI AND ENGINEERING	N	751	298	1,360	1,250	566	706	325	220	187	241	98	75	6,077
	%	12.4	4.9	22.4	20.6	9.3	11.6	5.3	3.6	3.1	4.0	1.6	1.2	100.0
MATHEMATICS	N	105	30	241	112	63	94	23	30	15	38	8	7	766
	%	13.7	3.9	31.5	14.6	8.2	12.3	3.0	3.9	2.0	5.0	1.0	.9	100.0
PHYSICS AND ASTRONOMY	N	95	82	281	256	58	106	38	34	16	43	12	28	1,049
	%	9.1	7.8	26.8	24.4	5.5	10.1	3.6	3.3	1.5	4.1	1.1	2.7	100.0
Elementary Particles	N	12	13	36	59	3	12	4	9	2	9	1	1	161
	%	7.4	8.1	22.4	36.7	1.9	7.4	2.5	5.6	1.2	5.6	.6	.6	100.0
Solid State	N	21	17	84	75	22	37	12	6	7	9	5	—	295
	%	7.1	5.8	28.5	25.4	7.5	12.5	4.1	2.0	2.4	3.0	1.7	—	100.0
CHEMISTRY	N	33	103	248	709	108	133	44	78	31	63	16	14	1,580
	%	2.1	6.5	15.7	44.9	6.8	8.4	2.8	4.9	2.0	4.0	1.0	.9	100.0
Organic	N	7	35	90	321	42	56	10	30	18	26	6	—	641
	%	1.1	5.5	14.0	50.1	6.5	8.7	1.6	4.7	2.8	4.1	.9	—	100.0
Physical	N	5	37	65	206	22	37	9	24	5	10	4	1	425
	%	1.2	8.7	15.3	48.5	5.2	8.7	2.1	5.6	1.2	2.4	.9	.2	100.0
EARTH SCIENCES	N	31	15	101	53	61	71	19	13	7	16	5	7	399
	%	7.8	3.8	25.3	13.3	15.3	17.8	4.8	3.3	1.7	4.0	1.2	1.7	100.0
ENGINEERING	N	487	68	489	120	276	302	201	65	118	81	57	19	2,283
	%	21.3	3.0	21.4	5.3	12.1	13.2	8.8	2.9	5.2	3.5	2.5	.8	100.0
Chemical	N	64	31	91	45	40	32	21	11	10	14	—	3	362
	%	17.7	8.6	25.1	12.4	11.1	8.8	5.8	3.0	2.8	3.9	—	.8	100.0
Electrical	N	118	5	107	9	41	68	43	10	23	19	18	8	469
	%	25.2	1.1	22.8	1.9	8.7	14.5	9.2	2.1	4.9	4.1	3.8	1.7	100.0

TABLE 12

(continued)

Field of Doctorate		Doctorate Recipients by Institutional Transfer Pattern*												
		U.S. Baccalaureate						Foreign Baccalaureate					Bacc Inst Unknown	Total Doctorate Recipients
		A	B	C	D	E	F	G	H	I	J	K		
BIOLOGICAL SCIENCES	N	264	114	580	455	399	442	142	113	87	179	75	19	2,869
	%	9.2	4.0	20.2	15.9	13.9	15.4	5.0	3.9	3.0	6.2	2.6	.7	100.0
AGRICULTURE AND FORESTRY	N	69	11	107	18	112	68	62	16	32	52	24	1	572
	%	12.1	1.9	18.7	3.1	19.6	11.9	10.8	2.8	5.6	9.1	4.2	.2	100.0
HEALTH SCIENCES	N	34	11	48	38	52	52	23	17	10	20	7	4	316
	%	10.7	3.5	15.2	12.0	16.5	16.5	7.3	5.4	3.1	6.3	2.2	1.3	100.0
BIOCHEM, BIOPHYS, PHYSIOL	N	54	52	148	210	64	116	23	41	20	49	21	6	804
	%	6.7	6.5	18.4	26.1	8.0	14.4	2.9	5.1	2.5	6.1	2.6	.7	100.0
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	N	63	22	149	106	87	102	21	30	18	40	19	2	659
	%	9.6	3.3	22.6	16.1	13.2	15.5	3.2	4.5	2.7	6.1	2.9	.3	100.0
ECOLOGY, HYDROBIOLOGY	N	2	1	16	4	9	6	3	1	1	3	—	—	46
	%	4.3	2.2	34.8	8.7	19.6	13.0	6.5	2.2	2.2	6.5	—	—	100.0
BOTANY, ZOOLOGY, GENERAL BIOLOGY	N	42	17	112	79	75	98	10	8	6	15	4	6	472
	%	8.9	3.6	23.7	16.7	15.9	20.8	2.1	1.7	1.3	3.2	.9	1.3	100.0
SOCIAL SCIENCES	N	269	86	720	404	311	490	101	52	60	91	41	41	2,666
	%	10.1	3.2	27.0	15.2	11.7	18.4	3.8	2.0	2.2	3.4	1.5	1.5	100.0
PSYCHOLOGY	N	122	38	335	205	134	224	16	18	9	16	7	9	1,133
	%	10.8	3.3	29.6	18.1	11.8	19.8	1.4	1.6	.8	1.4	.6	.8	100.0
ANTHROPOLOGY AND ARCHEOLOGY	N	8	8	30	15	11	15	5	5	2	5	1	4	109
	%	7.3	7.3	27.5	13.8	10.1	13.8	4.6	4.6	1.8	4.6	.9	3.7	100.0
SOCIOLOGY	N	33	8	82	23	26	47	10	—	12	8	5	4	258
	%	12.8	3.1	31.8	8.9	10.0	18.2	3.9	—	4.7	3.1	1.9	1.6	100.0
ECONOMICS AND ECONOMETRICS	N	69	22	108	104	92	71	50	23	21	38	16	8	622
	%	11.1	3.5	17.4	16.7	14.8	11.4	8.0	3.7	3.4	6.1	2.6	1.3	100.0
POLIT SCI AND INT RELAT	N	32	8	133	54	29	75	17	5	10	17	6	15	401
	%	8.0	2.0	33.2	13.5	7.2	18.7	4.2	1.3	2.5	4.2	1.5	3.7	100.0

TABLE 12

(continued)

		Doctorate Recipients by Institutional Transfer Pattern*												
		U.S. Baccalaureate						Foreign Baccalaureate					Bacc Inst Unknown	Total Doctorate Recipients
		A	B	C	D	E	F	G	H	I	J	K		
ARTS AND HUMANITIES	N	223	55	781	207	338	598	65	39	42	46	27	76	2,497
	%	8.9	2.2	31.3	8.3	13.5	24.0	2.6	1.6	1.7	1.8	1.1	3.0	100.0
HISTORY	N	69	11	230	53	70	142	20	7	5	8	4	25	644
	%	10.7	1.7	35.7	8.2	10.9	22.1	3.1	1.1	.8	1.2	.6	3.9	100.0
ENGLISH AND AMERICAN LANG AND LIT	N	41	10	256	38	93	178	9	5	7	9	4	16	666
	%	6.2	1.5	38.4	5.7	14.0	26.7	1.4	.7	1.0	1.4	.6	2.4	100.0
MODERN FOREIGN LANG AND LIT	N	51	19	106	62	51	82	23	19	23	17	11	14	478
	%	10.7	4.0	22.2	13.0	10.7	17.1	4.8	4.0	4.8	3.5	2.3	2.9	100.0
CLASSIC LANG AND LIT	N	8	1	21	6	5	16	5	—	1	4	3	1	71
	%	11.3	1.4	29.6	8.5	7.0	22.6	7.0	—	1.4	5.6	4.2	1.4	100.0
PHILOSOPHY	N	19	9	57	33	24	28	5	3	1	4	1	15	199
	%	9.6	4.5	28.6	16.6	12.1	14.1	2.5	1.5	.5	2.0	.5	7.5	100.0
SPEECH AND DRAMATIC ARTS	N	21	2	60	10	55	83	—	2	3	2	2	—	240
	%	8.8	.8	25.0	4.2	22.9	34.6	—	.8	1.3	.8	.8	—	100.0
FINE ARTS AND MUSIC	N	14	2	46	4	34	61	3	3	1	2	2	4	176
	%	8.0	1.1	26.1	2.3	19.3	34.7	1.7	1.7	.6	1.1	1.1	2.3	100.0
PROFESSIONAL FIELDS	N	59	15	150	79	118	171	28	12	23	16	7	52	730
	%	8.1	2.1	20.6	10.8	16.2	23.4	3.8	1.6	3.1	2.2	1.0	7.1	100.0
BUSINESS ADMINISTRATION	N	48	4	93	7	87	86	13	4	12	6	5	5	370
	%	13.0	1.1	25.1	1.9	23.5	23.2	3.5	1.1	3.2	1.6	1.4	1.4	100.0
RELIGION AND THEOLOGY	N	5	7	35	62	13	44	2	5	3	3	2	7	188
	%	2.7	3.7	18.6	32.9	6.9	23.4	1.1	2.7	1.6	1.6	1.1	3.7	100.0
EDUCATION	N	382	6	737	55	638	1,075	36	8	31	28	22	8	3,026
	%	12.6	.2	24.4	1.8	21.1	35.5	1.2	.3	1.0	.9	.7	.3	100.0

*The institutional transfer patterns (A through K) are defined in Table 11.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

There has been considerable stability in the patterns from 1950 until 1966, the most popular being C. About 20 percent of the science and 10 percent of the nonscience doctorate recipients omit the master's degree (B and D). Approximately one seventh of the students receive all degrees from the same institution (A and B). Table 12 reveals the characteristically large field variations from the average pattern.

PARENTAL EDUCATION

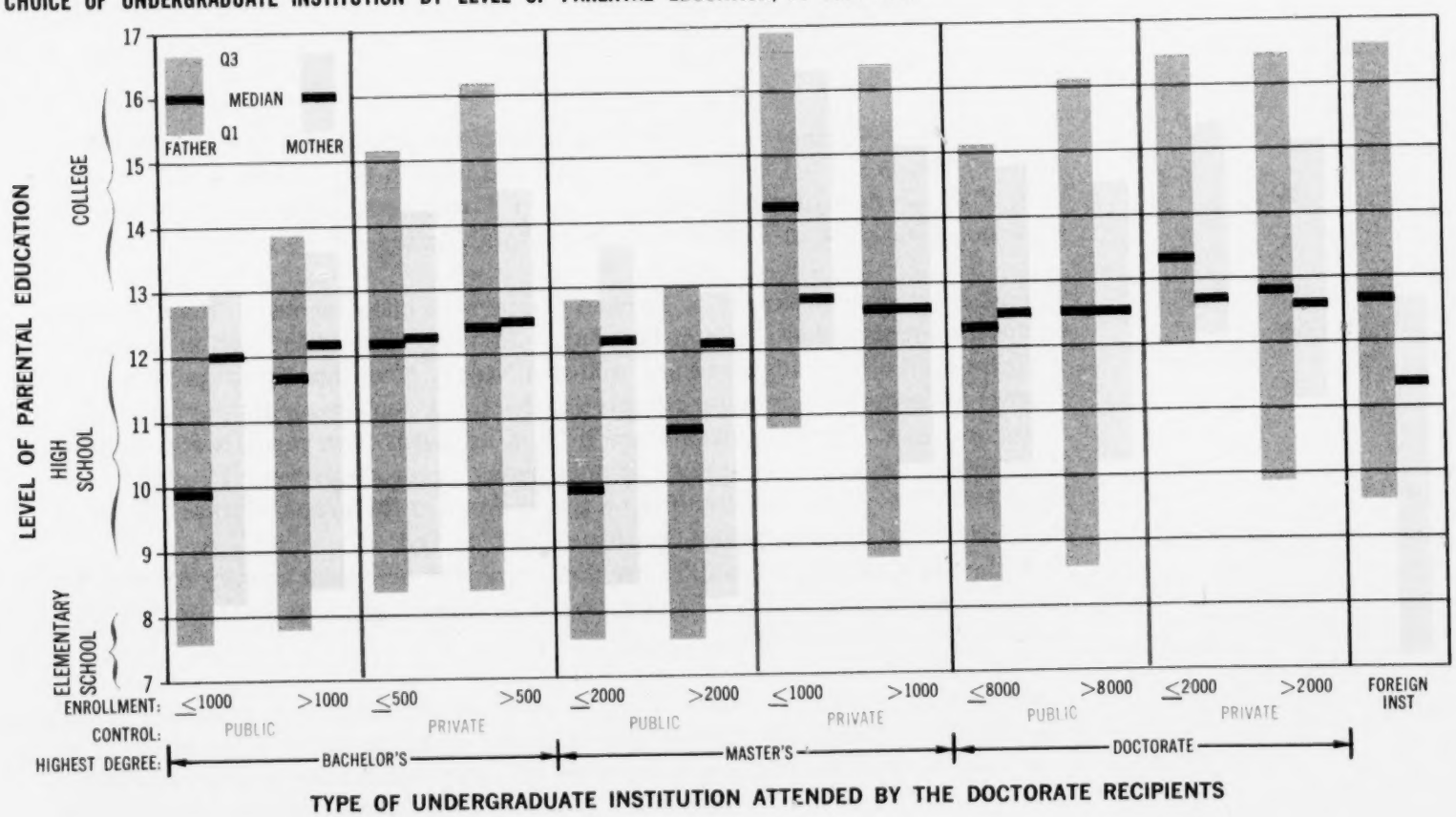
Figures 12 and 13 indicate the relation between the educational level of the parents of the doctorate recipient and his choice of undergraduate institution and doctoral field. The bottom line on each bar represents the first quartile (one fourth of the parents had less than this amount of education); the middle line represents the median or second quartile (one half had less than this amount of education); the top line shows the third quartile (one fourth had more than this amount of formal education).

Figure 12 shows a marked relation between parental education and the type of undergraduate institution attended by the doctorate recipient. Parents of those who attended public undergraduate institutions had less formal education than parents whose children attended private institutions. These differences occur in comparisons between mothers as well as fathers.

In contrast, there is little apparent relation between parents' education and the doctoral student's choice of field (Figure 13). The one notable exception is education, in which the fathers' years of formal schooling were significantly lower.

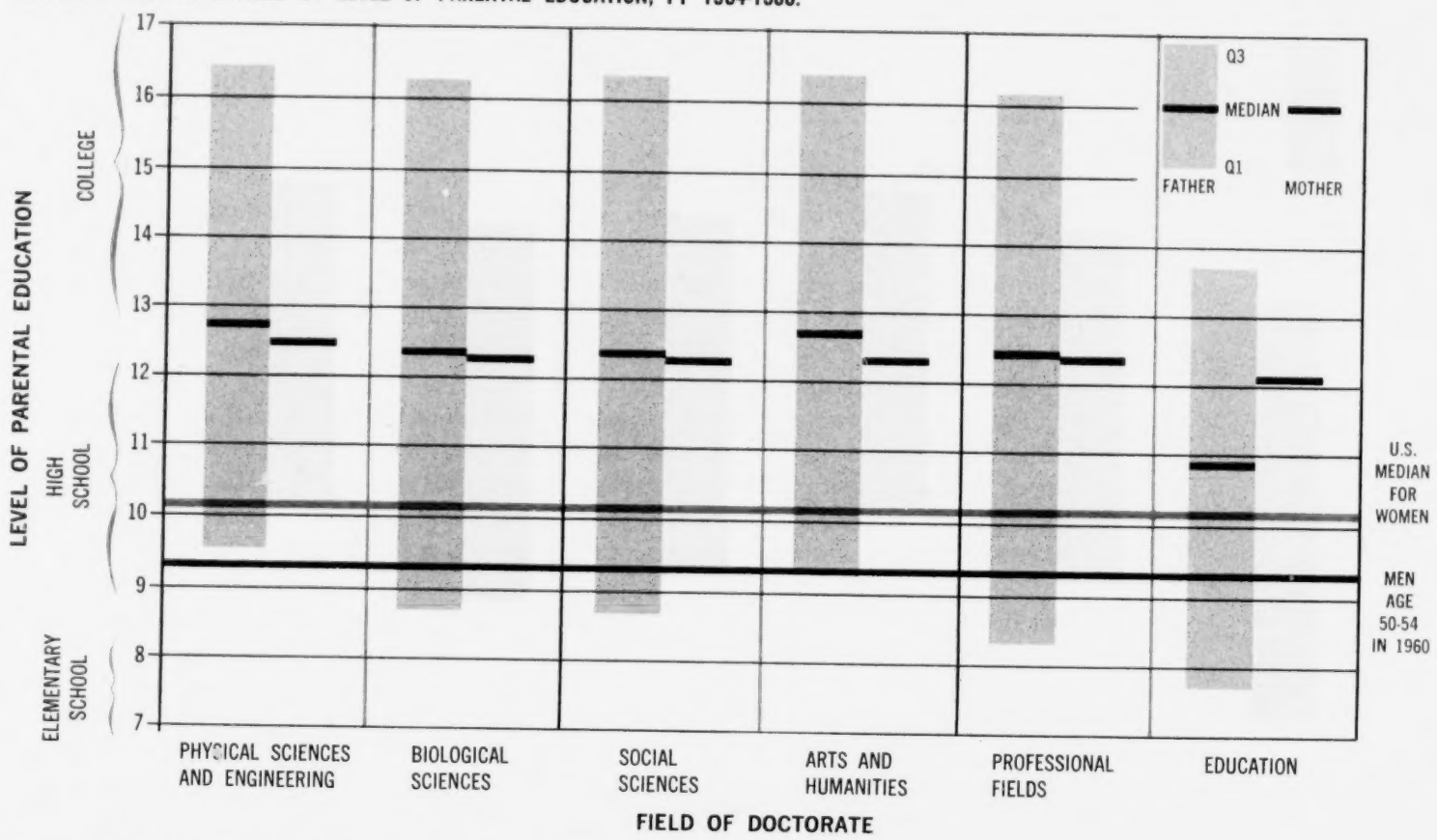
In both figures the over-all median education for fathers and for mothers was about 12th grade, but the education of the fathers shows greater variability than that of the mothers. This variability is displayed graphically by the length of the bar between the first and third quartiles.

FIGURE 12
CHOICE OF UNDERGRADUATE INSTITUTION BY LEVEL OF PARENTAL EDUCATION, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 13
CHOICE OF DOCTORAL FIELD BY LEVEL OF PARENTAL EDUCATION, FY 1964-1966.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
U.S. Bureau of the Census, *U.S. Census of Population: 1960. Detailed Characteristics.* (Final Report, PC (1)-1D), Table 173, pp. 1-405.

Figure 13 compares the median parental education of doctorate holders with the median of all United States men and women 50 - 54 years old. The parents of the doctorate recipients have more formal education, and they show less sex difference in education than the total United States group.

DOCTORAL ADVISEES PER ADVISER

When filling out the Survey of Earned Doctorates questionnaire, the doctorate recipient supplies the name of his major adviser. This information is used to compile an index of advisees per major adviser. The data in Table 13 show the number of doctoral advisees completing doctoral requirements per year per major adviser. The tabulations are broken by field. The ratios were compiled by counting the average number of doctorates granted per year in each field from FY 1964 - 1966 and dividing by the number of different advisers in each field who were named during the three-year period.

The ratio varies from 0.53 for the biological sciences to 0.99 for education. The average for all fields is 2 doctorates in three years for each person who served as a major adviser.

CORRELATES OF INSTITUTION SIZE

Many factors interact to determine the number and variety of graduate programs offered at an institution, the number of graduate students enrolled at the institution, and the number of doctorates granted. Institution size is not a perfect predictor of any of the above, but it does have some interesting correlations. The following pages present data showing some of the correlates of institution size.

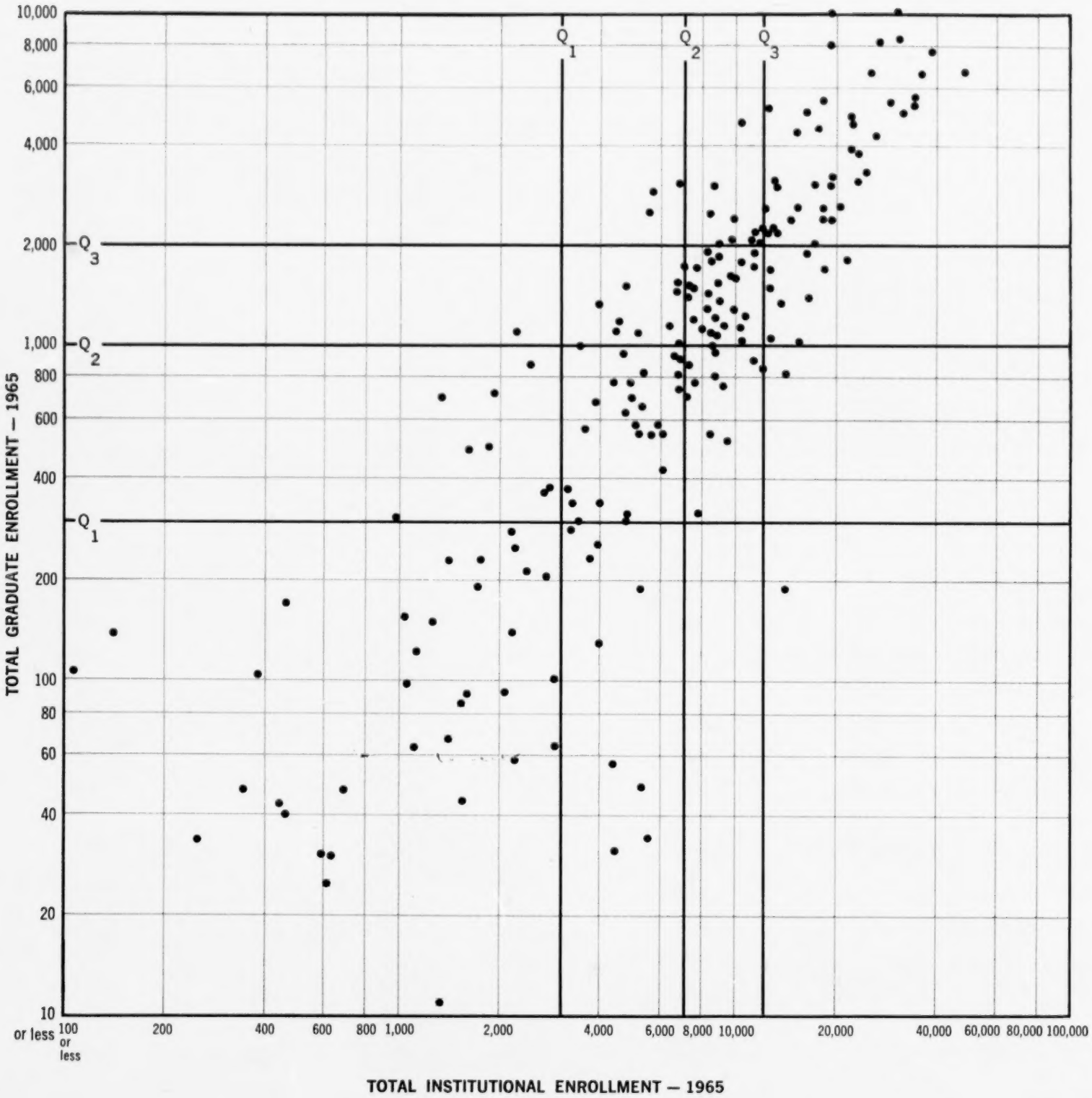
TABLE 13

Number of Doctorate Recipients per Major Adviser, by Field of Doctorate, FY 1964 - 1966

Field of Doctorate	Number of Doctorate Recipients - Major Adviser Known	Number of Major Advisers	Doctorate Recipients per Major Adviser per 3-yr Period	Number of Doctorate Recipients - Major Adviser Unknown	Total Doctorate Recipients FY 1964-66
TOTAL ALL FIELDS	43,263	21,477	2.01	5,228	48,491
PHYSICAL SCIENCES AND ENG	14,796	7,189	2.06	1,671	16,467
MATHEMATICS	1,841	1,018	1.81	199	2,040
PHYSICS AND ASTRONOMY	2,629	1,455	1.81	330	2,959
CHEMISTRY	3,993	1,623	2.46	377	4,370
EARTH SCIENCES	980	547	1.79	105	1,085
ENGINEERING	5,353	2,546	2.10	660	6,013
BIOLOGICAL SCIENCES	7,104	4,433	1.60	807	7,911
AGRICULTURE AND FORESTRY	1,524	949	1.61	141	1,665
HEALTH SCIENCES	752	513	1.47	104	856
OTHER BIOLOGICAL SCIENCES	4,828	2,971	1.63	562	5,390
SOCIAL SCIENCES	6,479	3,444	1.88	868	7,347
PSYCHOLOGY	2,788	1,348	2.07	313	3,101
ANTHROPOLOGY AND ARCHEOLOGY	265	161	1.65	29	294
SOCIOLOGY	624	368	1.70	74	698
ECONOMICS AND ECONOMETRICS	1,470	805	1.83	239	1,709
POLIT SCI AND INT RELAT	965	532	1.81	163	1,128
OTHER SOCIAL SCIENCES	367	230	1.60	50	417
ARTS AND HUMANITIES	6,054	3,079	1.97	751	6,805
HISTORY	1,572	779	2.02	207	1,779
LANGUAGE AND LITERATURE	2,935	1,480	1.98	371	3,306
FINE ARTS AND MUSIC	461	255	1.81	57	518
OTHER ARTS AND HUMANITIES	1,086	565	1.92	116	1,202
PROFESSIONAL FIELDS	1,564	890	1.76	296	1,860
BUSINESS ADMINISTRATION	778	475	1.64	123	901
RELIGION AND THEOLOGY	473	224	2.11	77	550
OTHER PROFESSIONAL FIELDS	313	191	1.64	96	409
EDUCATION	7,266	2,442	2.98	835	8,101

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Figure 14
Doctorate-Granting Institutions By Graduate Enrollment and By Total Institutional Enrollment, 1965.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
USOE, *Education Directory, 1964-65, Part 3, Higher Education* (OE - 50000 - 65)

Graduate Enrollment

The relation between total institution enrollment and total graduate enrollment in United States doctorate-granting institutions is shown in Figure 14. The graduate enrollments used comprised all graduate students—full- and part-time—including those who intended to terminate with a master's degree as well as those planning to obtain a doctorate.

Figure 14 shows a scattergram of black dots, each dot representing one doctorate-granting institution. Each axis of the figure consists of a three-cycle logarithmic scale indicating total enrollment (horizontal) or graduate enrollment (vertical). The three black vertical lines (Q_1, Q_2, Q_3) divide the institutions into four groups by total enrollment, each group having the same number of institutions. Likewise, the three black horizontal lines (Q_1, Q_2, Q_3) divide the institutions into four equal groups by graduate enrollment.

The data indicate that the larger institutions have a higher percentage of graduate students among their enrollment. Doctorate-granting institutions with total enrollments less than 3,000 classify about 10 percent of their total student population as graduate students; institutions with enrollment between 3,000 and 12,000 have about 15 percent graduate students; and those with enrollments over 12,000 have about 20 percent graduate enrollment.

Number of Doctoral Fields

Figure 15 shows the relation between the number of academic fields in which doctorates are granted at an institution and the total graduate enrollment of the institution. The horizontal axis shows total graduate enrollment on a logarithmic scale, and the vertical axis indicates the number of doctoral fields on a linear scale. The maximum number of fields possible was 26. Each dot of the scattergram represents one institution. The overlay grid of Q_1, Q_2, Q_3 lines is interpreted as in Figure 14.

As a rough approximation, it appears there are about 100 graduate students per doctoral field at an institution. The data in Figure 15 show that the median number of doctoral fields for institutions with graduate enrollment greater than 2,000 is 21. Institutions with graduate enrollments between 1,000 and 2,000 have a median of thirteen doctoral fields; those with 300 - 1,000 have a median of seven fields; and those with fewer than 300 graduate students have a median of three doctoral fields. Graduate enrollment places an obvious top limit on numbers of doctoral fields offered in an institution, and most of the largest institutions (more than 2,000 graduate students) have a minimum of seventeen doctoral fields.

Graduate Enrollment and Doctorates Granted

Figure 16 shows the United States doctoral institutions distributed by first-year graduate enrollment in FY 1961 and numbers of doctorates granted five years later in FY 1966. Both axes are logarithmic scales, and the Q_1, Q_2, Q_3 grid overlay is interpreted as in Figures 14 and 15.

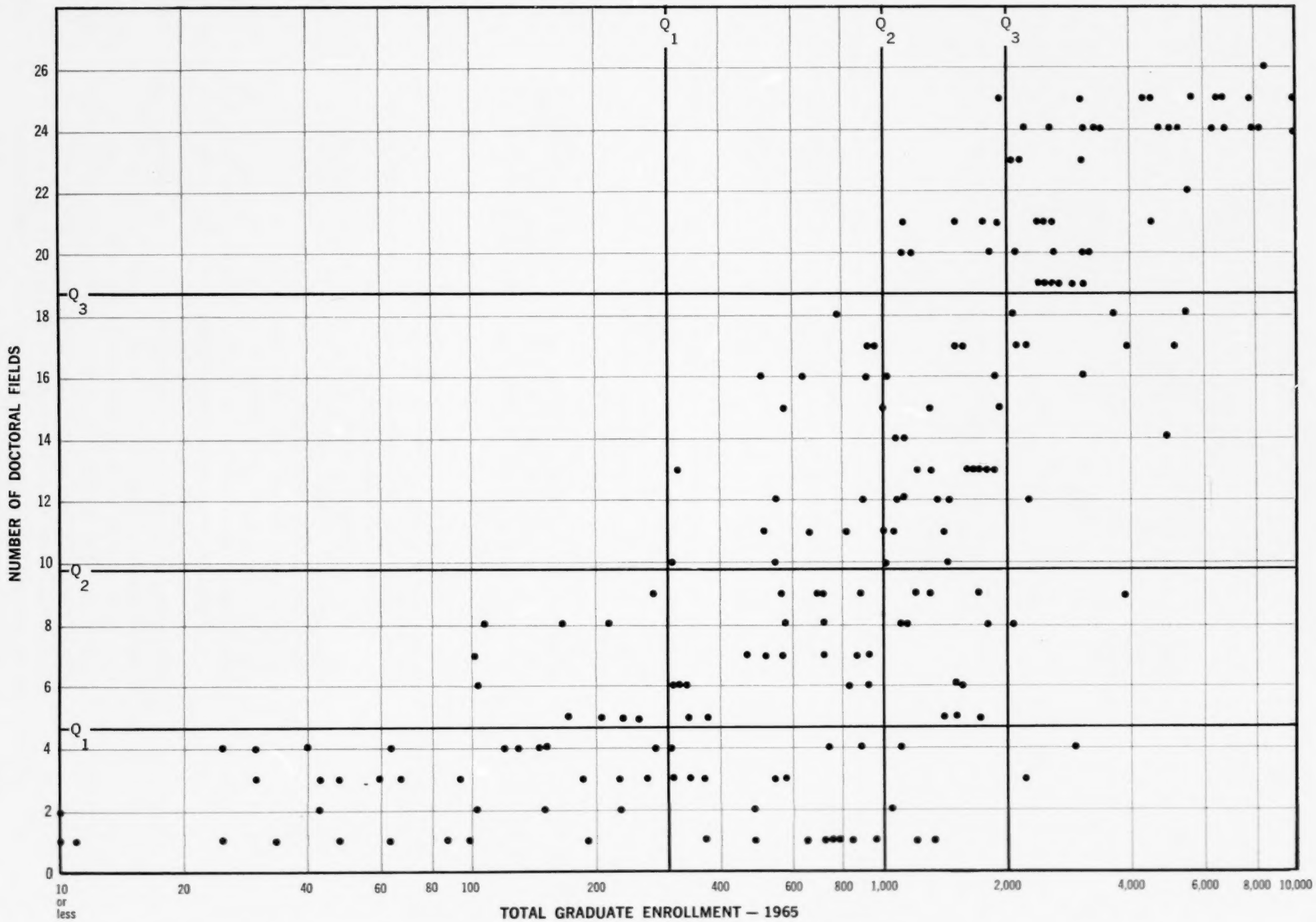
The data indicate an output of about 1 docto ..te per 10 first-year graduate enrollments five years before. The largest institutions, with first-year enrollments greater than 900, grant about 250 doctorates per year. Those with enrollments between 400 and 900 grant about 60 doctorates per year; institutions with 200 - 400 enrollments grant about 40 per year; and those with fewer than 200 grant about 7 doctorates per year. The variation from these averages is large.

Total institution enrollment relates also to the science - nonscience ratio in doctoral programs in the institution. Small universities, offering few doctoral programs, do not provide the balance between humanities and science that characterize the larger universities. Figure 17 shows the relation.

Fifty percent of the institutions with total enrollment less than 6,000 granted over 90 percent of their doctorates in science fields and twenty-one percent of the group granted less than 10 percent of their doctorates in science. The small institution tends to be "all or nothing at all" in its science - nonscience balance.

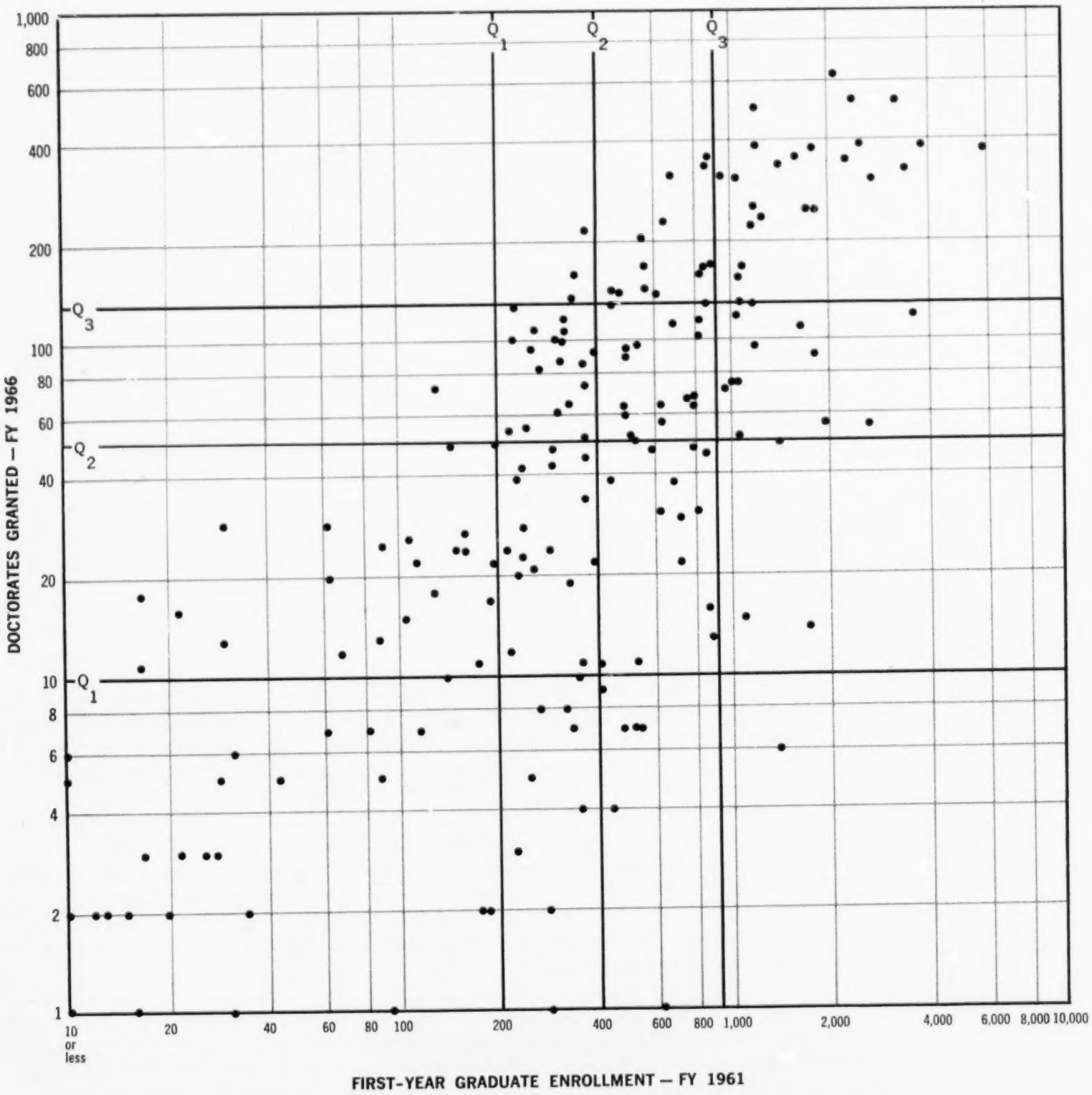
In contrast, 82 percent of the institutions with enrollments greater than 6,000 (and all institutions of 17,000 or more) had a ratio of science doctorates to all doctorates falling between 0.30 and 0.79.

Figure 15
Doctorate-Granting Institutions By Number of Doctoral Fields and By Total Graduate Enrollment, 1965.



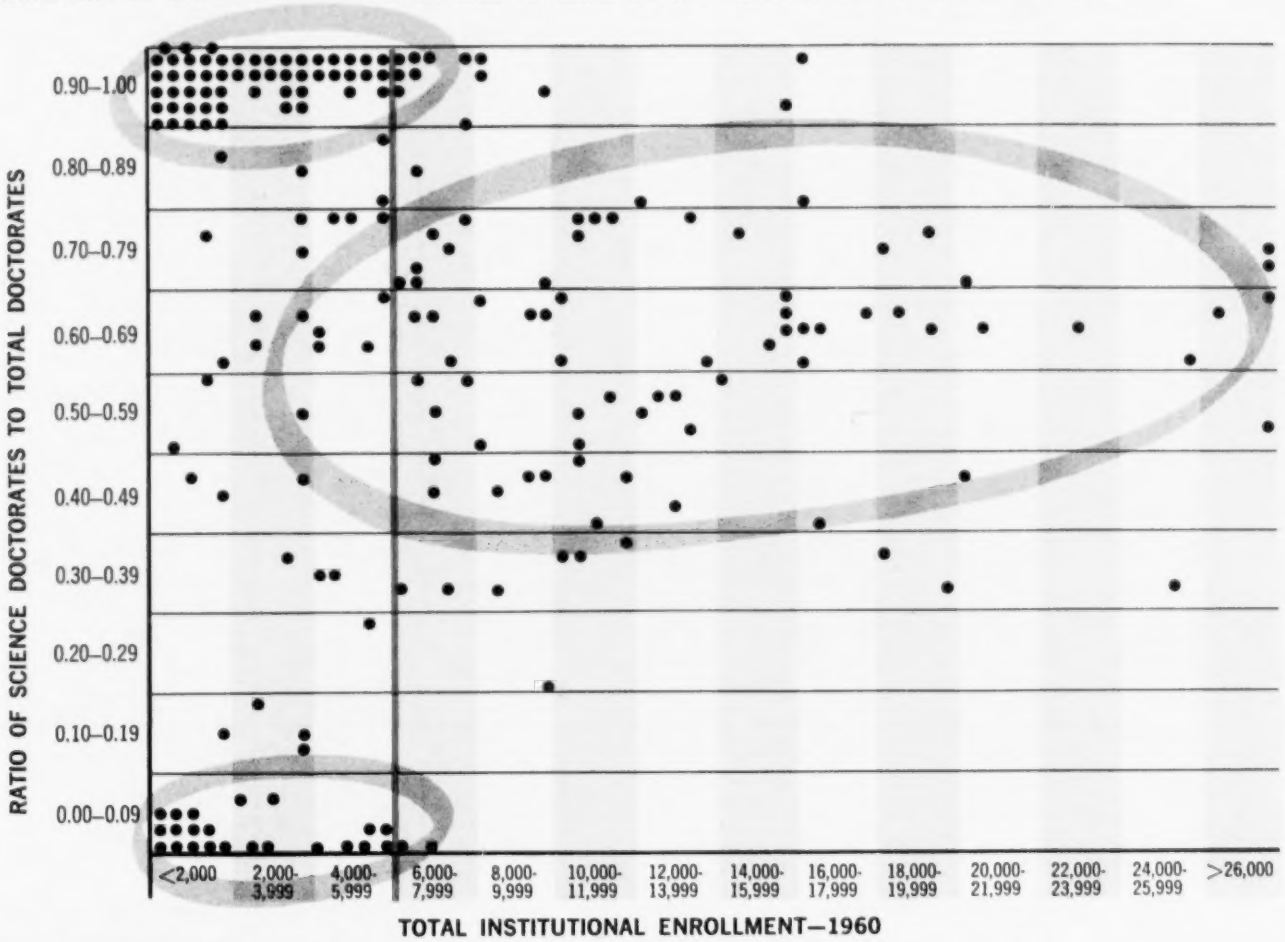
Sources: NRC, Office of Scientific Personnel, Doctorate Records File. USOE, *Education Directory, 1964-65, Part 3, Higher Education* (OE - 50000 - 65)

Figure 16
Doctorate-Granting Institutions By First-Year Graduate Enrollment and By Number of Doctorate Recipients Five Years Later.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
USOE, *Enrollment for Advanced Degrees: Fall 1960*. Table 15, p. 29 (OE-54019-60)

FIGURE 17
DOCTORATE-GRANTING INSTITUTIONS BY RATIO OF SCIENCE DOCTORATES TO TOTAL GRANTED 1960-1966 AND TOTAL INSTITUTIONAL ENROLLMENT IN 1960.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
USOE, *Education Directory, 1959-60: Part 3, Higher Education (OE-50000).*

CORRELATES OF BACCALAUREATE-TO-DOCTORATE TIME LAPSE

One very important aspect of the doctoral education process is the time required to complete the job or the time lapse from receipt of baccalaureate to completion of doctorate. Most fellowship programs have as a major goal the reduction of the baccalaureate-to-doctorate time span. A number of factors are often assumed to be related to time lapse, such as the doctoral field, the type of undergraduate institution, and the amount of institutional transfer. This section displays data showing the relation of the above factors to time lapse.

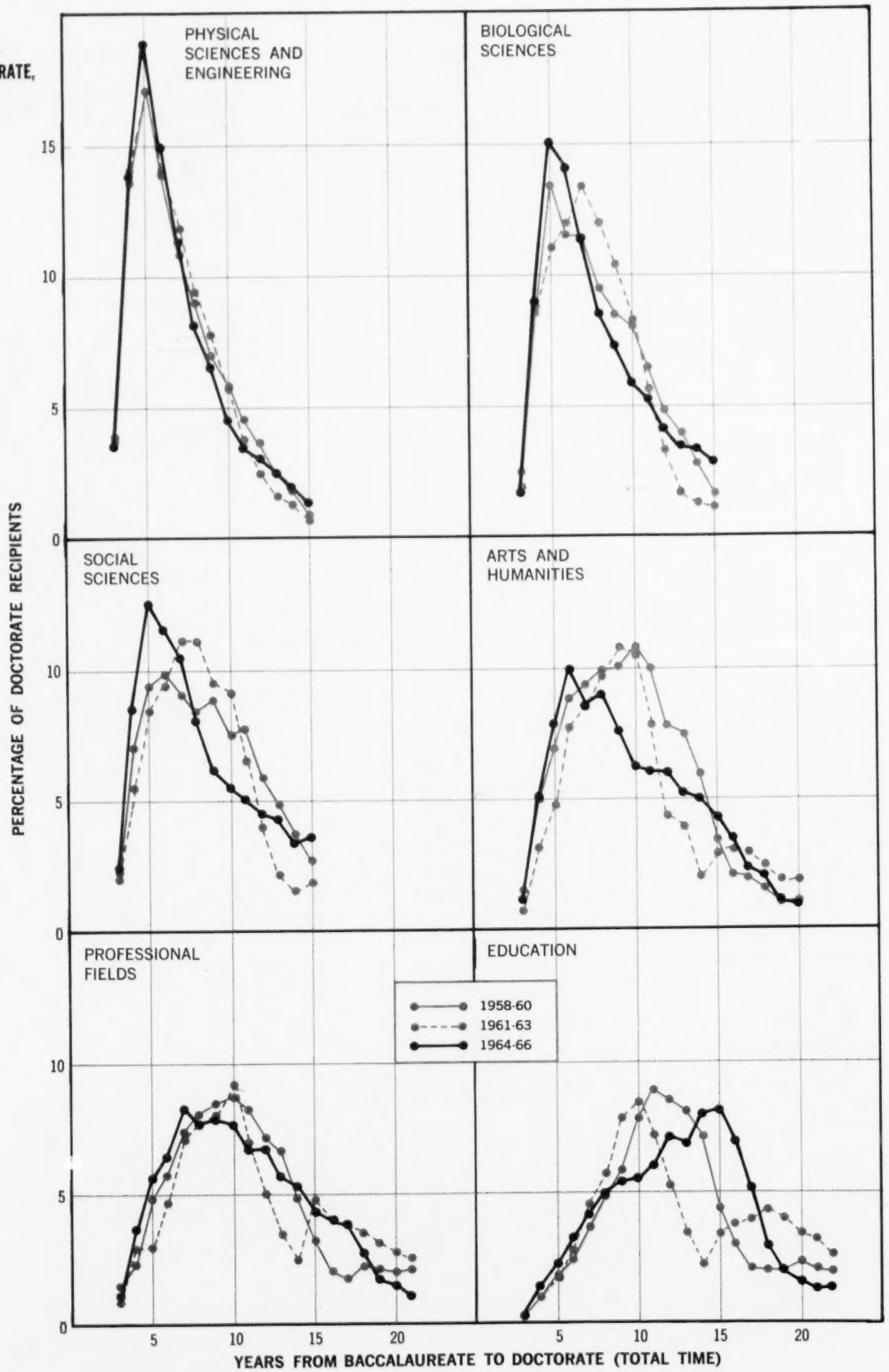
The data report two kinds of "time"—the total calendar time elapsed between year of baccalaureate and year of doctorate and the total time registered in a university. The latter does not distinguish between full time and part time, but it measures the total time the student was officially registered and working on his graduate program.

Field Effects

Figure 18 and Table 14 show baccalaureate-to-doctorate time lapse by field for three 3-year periods. Both Total Time and Total Registered Time are tabulated. Most of the broad fields show decreases of about one-half year in Total Time to the doctorate when the medians of FY 1958 - 1960 and FY 1964 - 1966 are compared. The exceptions are physical sciences, which show no change, and education, which shows an increase in time lapse. The data reveal no corresponding decreases in Registered Time. This has remained about constant for all broad fields.

The data show large field differences in total baccalaureate-to-doctorate time. The physical sciences have the shortest median time of 6.3 years in 1964 - 1966, and education has the longest with 13.8 years. However, these differences are reduced sharply when using total registered time to 5.1 years for physical sciences and 6.8 years for education.

FIGURE 18
TIME-LAPSE DISTRIBUTIONS, BACCALAUREATE TO DOCTORATE, BY FIELD, FY 1958-1960, 1961-1963, 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 14

Time Lapse, Baccalaureate to Doctorate, Trends by Field, FY 1958 - 1960, 1961 - 1963, 1964 - 1966

Field of Doctorate	Fiscal Year of Doctorate	Median Years from Baccalaureate to Doctorate	
		Total Time	Registered Time
TOTAL ALL FIELDS	1958-60	8.6 yrs	5.2 yrs
	1961-63	8.8	5.3
	1964-66	8.2	5.4
PHYSICAL SCIENCES AND ENGINEERING	1958-60	6.6	4.9
	1961-63	6.6	5.0
	1964-66	6.3	5.1
MATHEMATICS	1958-60	7.0	5.1
	1961-63	7.1	5.1
	1964-66	5.9	5.0
PHYSICS AND ASTRONOMY	1958-60	6.7	5.4
	1961-63	6.8	5.6
	1964-66	6.4	5.6
Elementary Particles	1958-60	6.1	5.2
	1961-63	6.2	5.5
	1964-66	5.9	5.3
Solid State	1958-60	6.7	5.6
	1961-63	7.0	5.8
	1964-66	6.6	5.8
CHEMISTRY	1958-60	5.7	4.6
	1961-63	5.8	4.8
	1964-66	5.6	4.8
Organic	1958-60	5.5	4.6
	1961-63	5.5	4.6
	1964-66	5.2	4.6
Physical	1958-60	5.8	4.7
	1961-63	5.9	4.9
	1964-66	5.9	4.9
EARTH SCIENCES	1958-60	7.5	4.6
	1961-63	7.8	5.0
	1964-66	7.6	5.5
ENGINEERING	1958-60	7.2	4.9
	1961-63	7.0	5.0
	1964-66	6.9	5.1
Chemical	1958-60	6.3	4.7
	1961-63	6.1	4.6
	1964-66	5.9	4.7
Electrical	1958-60	7.7	5.1
	1961-63	6.3	5.1
	1964-66	6.8	5.3

TABLE 14

(continued)

Field of Doctorate	Fiscal Year of Doctorate	Median Years from Baccalaureate to Doctorate	
		Total Time	Registered Time
BIOLOGICAL SCIENCES	1958-60	7.7 yrs	5.1 yrs
	1961-63	7.8	5.2
	1964-66	7.3	5.3
AGRICULTURE AND FORESTRY	1958-60	7.4	4.6
	1961-63	7.7	4.9
	1964-66	7.8	5.1
HEALTH SCIENCES	1958-60	8.0	5.0
	1961-63	9.1	5.4
	1964-66	8.6	5.6
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	1958-60	7.3	5.3
	1961-63	7.1	5.2
	1964-66	6.8	5.3
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1958-60	7.7	5.1
	1961-63	8.0	5.3
	1964-66	7.3	5.3
ECOLOGY, HYDROBIOLOGY	1958-60	7.8	5.7
	1961-63	8.1	5.2
	1964-66	7.3	5.3
BOTANY, ZOOLOGY, GENERAL BIOLOGY	1958-60	8.0	5.3
	1961-63	7.8	5.5
	1964-66	7.2	5.4
SOCIAL SCIENCES	1958-60	8.7	5.2
	1961-63	8.9	5.3
	1964-66	8.0	5.3
PSYCHOLOGY	1958-60	7.9	5.6
	1961-63	7.9	5.5
	1964-66	7.1	5.5
ANTHROPOLOGY AND ARCHEOLOGY	1958-60	8.8	5.0
	1961-63	10.1	5.4
	1964-66	9.3	5.5
SOCIOLOGY	1958-60	9.6	5.3
	1961-63	9.9	6.0
	1964-66	9.1	5.8
ECONOMICS AND ECONOMETRICS	1958-60	9.0	4.7
	1961-63	9.0	4.9
	1964-66	7.9	4.9
POLITICAL SCIENCE, INT RELATIONS	1958-60	9.8	5.0
	1961-63	9.2	5.1
	1964-66	8.6	5.3

TABLE 14

(continued)

Field of Doctorate	Fiscal Year of Doctorate	Median Years from Baccalaureate to Doctorate	
		Total Time	Registered Time
ARTS AND HUMANITIES	1958-60	9.9 yrs	5.7 yrs
	1961-63	10.1	5.7
	1964-66	9.5	5.7
HISTORY	1958-60	9.7	5.7
	1961-63	9.6	5.6
	1964-66	8.9	5.7
ENGLISH AND AMERICAN LANG AND LIT	1958-60	9.9	5.8
	1961-63	10.3	5.9
	1964-66	9.7	5.9
MODERN FOREIGN LANG AND LIT	1958-60	10.2	6.0
	1961-63	10.1	5.8
	1964-66	9.5	5.7
CLASSIC LANGUAGES AND LITERATURE	1958-60	8.0	5.3
	1961-63	9.7	5.6
	1964-66	8.3	5.6
PHILOSOPHY	1958-60	8.8	5.7
	1961-63	9.2	5.7
	1964-66	7.6	5.4
SPEECH AND DRAMATIC ARTS	1958-60	9.6	5.2
	1961-63	10.0	5.1
	1964-66	10.4	5.2
FINE ARTS AND MUSIC	1958-60	10.9	5.3
	1961-63	11.4	5.6
	1964-66	12.2	6.0
PROFESSIONAL FIELDS	1958-60	11.3	6.1
	1961-63	10.8	5.9
	1964-66	10.8	6.0
BUSINESS ADMINISTRATION	1958-60	10.1	5.1
	1961-63	9.9	5.1
	1964-66	9.6	5.3
RELIGION AND THEOLOGY	1958-60	11.4	7.1
	1961-63	10.8	7.1
	1964-66	11.6	7.2
EDUCATION	1958-60	14.0	6.6
	1961-63	13.0	6.6
	1964-66	13.8	6.8

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The shapes of the distributions in Figure 18 tell the same story. The sharp peaks of the science curves at 5 years reflect the fact that most of these students start graduate work almost immediately after the baccalaureate and obtain the doctorate in about 5 years. The broad, less well-defined, distributions of the other fields indicate longer breaks in the formal education pattern and perhaps more part-time study.

Time lapse varies by sex. Comparisons of the baccalaureate-to-doctorate time for men with that for women are presented in Chapter V.

With the exception of the modest trend noted in total time, the majority of the patterns seem reasonably stable over the past nine years. The remaining tables in this section concentrate on the FY 1964 - 1966 data.

Figure 19 and the associated Table 15 break the total baccalaureate-to-doctorate time lapse into its components: receipt of the baccalaureate to the beginning of graduate work, the beginning of graduate work to the master's degree, and the master's degree to the doctorate. It is important to recall that these statistics apply to persons who have successfully completed doctoral work, and they may not be applicable to the general graduate-school population.

TABLE 15

Time Lapse, Baccalaureate to Graduate School to Master's to Doctorate, by Field, FY 1964 - 1966

Field of Doctorate	Median Years from				
	Bacc to Grad School Entry (total time)	Grad School to Master's (total time)	Master's to Doctorate (total time)	Baccalaureate to Doctorate	
				Total Time	Registered Time
TOTAL ALL FIELDS	0.3 yrs	2.0 yrs	5.2 yrs	8.2 yrs	5.4 yrs
PHYSICAL SCIENCES AND ENG	0.2	2.0	4.1	6.3	5.1
MATHEMATICS	0.1	1.9	3.9	5.9	5.0
PHYSICS AND ASTRONOMY	0.1	2.0	4.3	6.4	5.6
Elementary Particles	0.1	2.0	4.0	5.9	5.3
Solid State	0.1	2.0	4.6	6.6	5.8
CHEMISTRY	0.1	2.2	3.9	5.6	4.8
Organic	0.1	2.2	3.8	5.2	4.6
Physical	0.1	2.2	4.1	5.9	4.9
EARTH SCIENCES	0.2	2.1	4.7	7.6	5.5
ENGINEERING	0.3	1.9	4.1	6.9	5.1
Chemical	0.3	1.9	3.7	5.9	4.7
Electrical	0.2	1.8	4.1	6.8	5.3
BIOLOGICAL SCIENCES	0.3	2.1	4.3	7.3	5.3
AGRICULTURE AND FORESTRY	0.4	2.0	4.2	7.8	5.1
HEALTH SCIENCES	0.4	2.3	4.8	8.6	5.6
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	0.2	2.2	4.3	6.8	5.3

TABLE 15

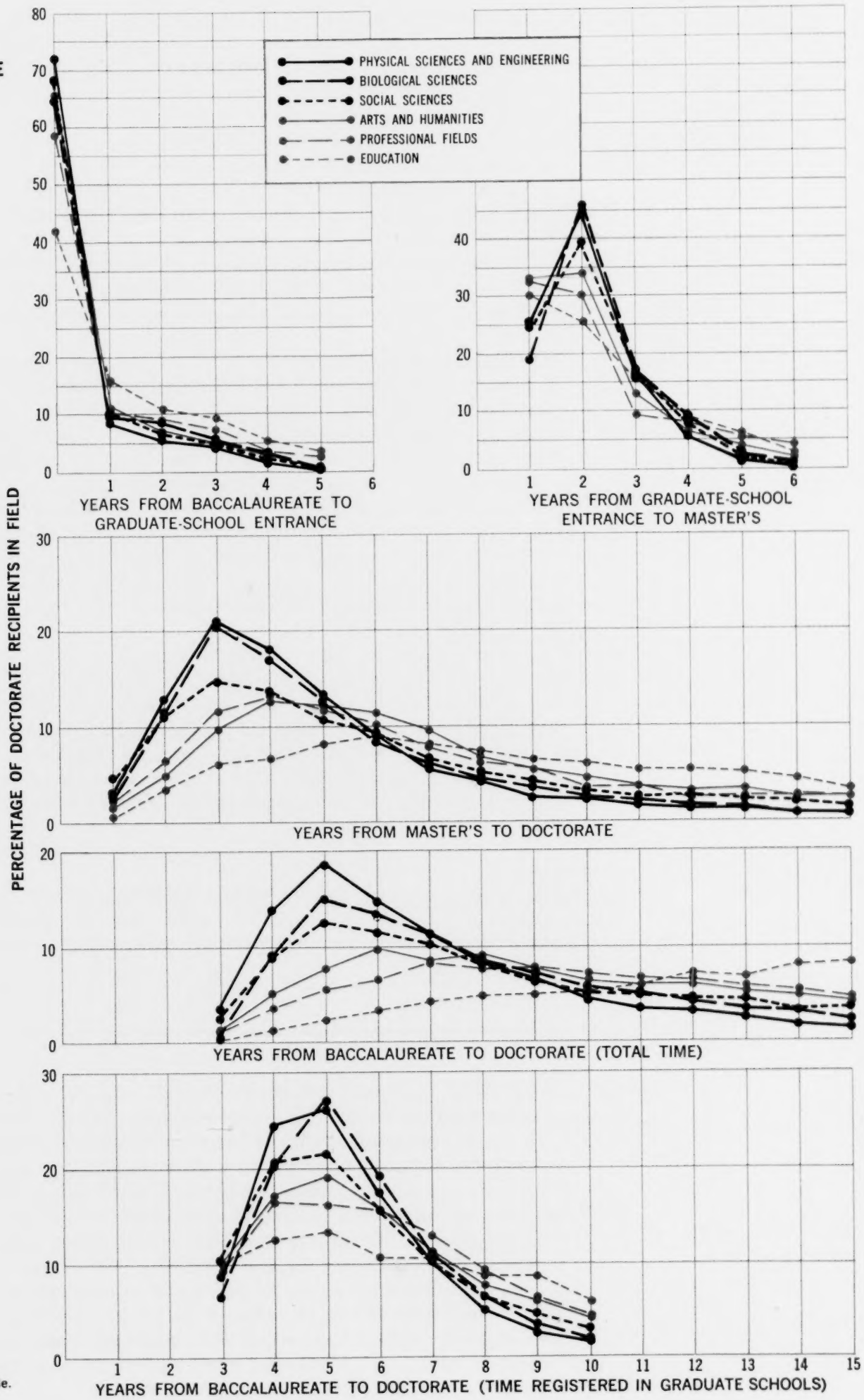
(continued)

Field of Doctorate	Median Years from: Bacc to Grad School Entry (total time)	Grad School to Master's (total time)	Master's to Doctorate (total time)	Baccalaureate to Doctorate: Total Time	Baccalaureate to Doctorate: Registered Time
ANAT, CYTOL, ENTOMOL, GENET	0.3 yrs.	2.1 yrs.	4.3 yrs.	7.3 yrs.	5.3 yrs.
ECOLOGY, HYDROBIOLOGY	0.3	2.3	4.5	7.3	5.3
BOTANY, ZOOLOGY, BIOL, GEN BIOL	0.2	2.2	4.3	7.2	5.4
SOCIAL SCIENCES	0.2	2.1	5.0	8.0	5.3
PSYCHOLOGY	0.2	2.1	4.2	7.1	5.5
ANTHROPOLOGY AND ARCHEOLOGY	0.3	2.2	5.6	9.3	5.5
SOCIOLOGY	0.2	2.2	5.3	9.1	5.8
ECON AND ECONOMETRICS	0.3	2.0	5.2	7.9	4.9
POLIT SCI AND INT RELATIONS	0.2	2.0	5.5	8.6	5.3
ARTS AND HUMANITIES	0.3	1.9	6.2	9.5	5.7
HISTORY	0.3	1.9	5.8	8.9	5.7
ENGLISH AND AMERICAN LANG AND LIT	0.3	1.9	6.6	9.7	5.9
MODERN FOREIGN LANG AND LIT	0.3	2.0	6.2	9.5	5.7
CLASSIC LANG AND LITERATURE	0.2	2.0	5.6	8.3	5.6
PHILOSOPHY	0.2	2.3	4.7	7.6	5.4
SPEECH AND DRAMATIC ARTS	0.3	1.8	6.7	10.4	5.2
FINE ARTS AND MUSIC	0.3	2.0	8.8	12.2	6.0
PROFESSIONAL FIELDS	0.4	2.0	5.9	10.8	6.0
BUSINESS ADMINISTRATION	0.4	1.7	5.7	9.6	5.3
RELIGION AND THEOLOGY	0.1	4.3	5.8	11.6	7.2
EDUCATION	1.0	2.2	8.4	13.8	6.8

Note: The sum of the medians of the component time lapse will not in general equal the total time lapse.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 19
TIME-LAPSE DISTRIBUTIONS, BACCALAUREATE TO GRADUATE SCHOOL TO MASTER'S TO DOCTORATE, BY FIELD, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

At least two thirds of the students in fields other than the professions and education started graduate work immediately upon completion of the baccalaureate (time lapse = 0). The modal time from beginning graduate work to the master's degree was 2 years for all but professional fields and education; and the modal master's-to-doctorate time was 3 years in the sciences and more than this for the other fields. The sum of the modal times can be compared with the modal baccalaureate-to-doctorate time lapse of 5 or 6 years.

The field differences, which are especially evident in professional fields and education, are largely erased if one uses registered time instead of total time (see the last diagram in Figure 19).

Table 15 shows the median times for each field. The substitution of one descriptive statistic (a median) for a total distribution sacrifices much detail, but this procedure is necessary to provide information for 26 fields.

Type of Undergraduate Institution

It is sometimes assumed in academic circles that time lapse is affected by type of undergraduate institution—that the person coming from the nondoctoral undergraduate institution who achieves the doctorate will take longer to complete the doctoral program. Extensive analysis of the time-lapse data fails to support this belief. Figure 20 and Table 16 summarize the analysis.

Inspection of the figure and the medians shows that the time-lapse patterns, when equated for broad field, do not reveal marked advantages for any type of baccalaureate institution. It should be emphasized that these data refer only to those who were successful in the doctoral program. Perhaps the type of undergraduate institution affects success rates or other aspects of the doctoral program, but it has no great effect on time lapse for those who succeed in achieving the doctorate.

In addition to the data presented above, each of the broad field distributions was analyzed to see if some aspect of the distribution other than the median was related to the type of undergraduate institution. For instance, an analysis was made for each baccalaureate type and each broad field to check the percentage of those who completed the doctorate within 5 years, on the assumption that the undergraduate effect, if it existed, would be more visible for those who went through quickly. The following data show in summary form the general results of the analysis:

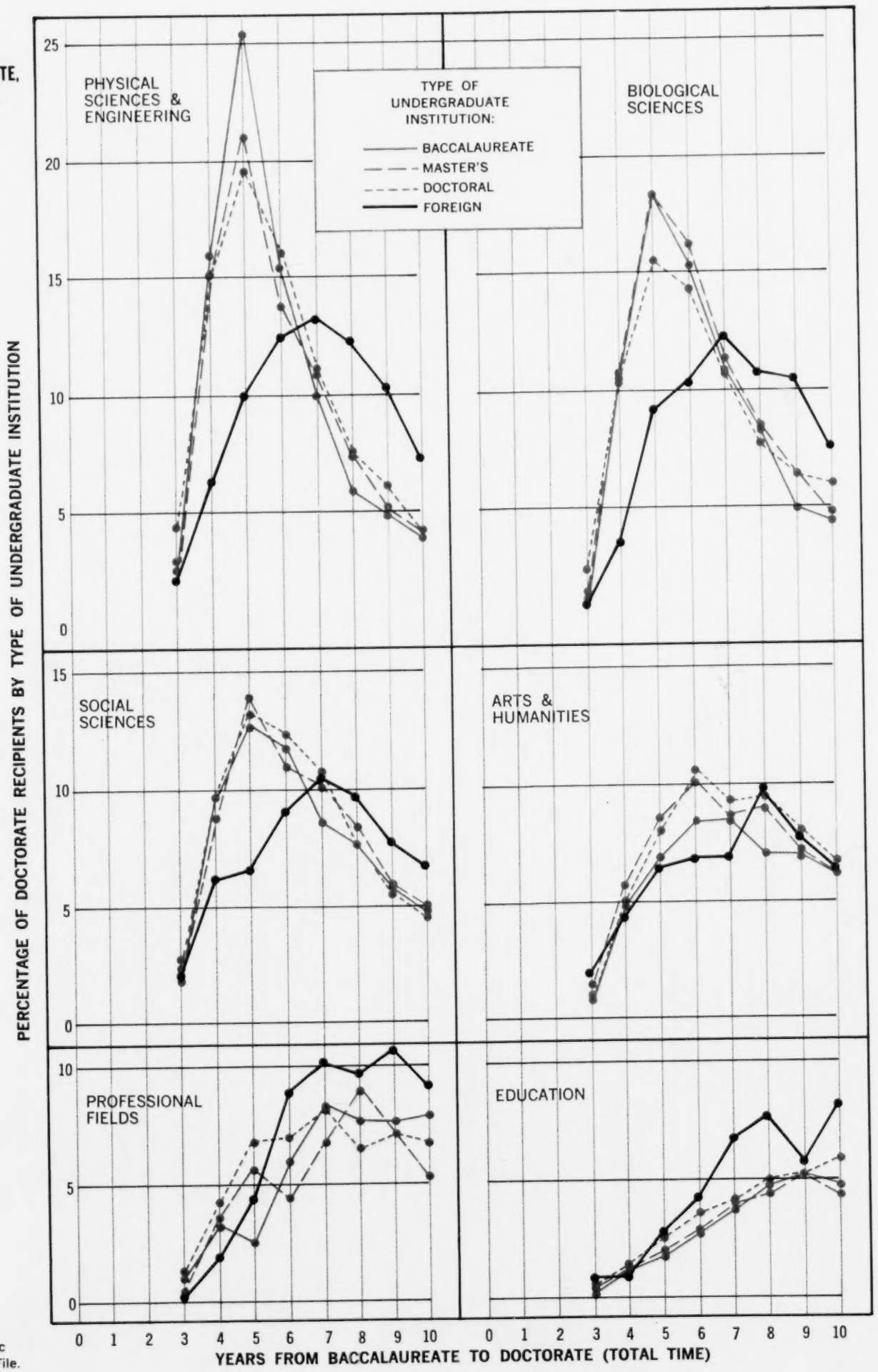
Type of Baccalaureate Institution	Percentage Finishing in Five Years (total time)					
	PS	BS	SS	A&H	Prof.	Educ.
Baccalaureate-granting	43	30	24	13	7	3
Master's-granting	40	31	25	15	10	4
Doctorate-granting	40	29	25	15	13	5

The professional fields and education show some advantage for the doctorate-granting institutions, but the sciences and humanities show no effect.

A similar analysis was made based on registered time, and it likewise failed to show any marked advantage for a particular type of baccalaureate source. The preceding analyses were based on the 1,294 United States institutions that had been baccalaureate sources to at least one doctorate. The USOE Education Directory lists 1,543 institutions in the United States that granted bachelor's or higher degrees during the academic year 1965 - 1966, so the baccalaureate source institutions constitute 84 percent of all baccalaureate institutions.

It should be noted that in Table 16 the longer time lapse of students from foreign baccalaureate institutions does not occur if one uses registered time instead of total time. Apparently many foreign students take longer to begin graduate school than do the United States students.

FIGURE 20
TIME-LAPSE DISTRIBUTIONS, BACCALAUREATE TO DOCTORATE, BY TYPE OF UNDERGRADUATE INSTITUTION AND FIELD, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 16

Time Lapse, Baccalaureate to Doctorate, by Type of Undergraduate Institution and Field, FY 1964 - 1966

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution													
		Baccalaureate				Master's				Doctorate				Foreign Bacc Inst	Total All Types
		Public ≤1,000	Public >1,000	Private ≤500	Private >500	Public ≤2,000	Public >2,000	Private ≤1,000	Private >1,000	Public ≤8,000	Public >8,000	Private ≤2,000	Private >2,000		
TOTAL ALL FIELDS	Total Time	11.9	10.8	10.1	8.4	11.6	9.4	8.2	7.8	8.1	7.8	6.8	7.4	8.7	8.2
	Registered Time	5.9	5.4	5.8	5.5	5.7	5.9	5.4	5.5	5.2	5.3	5.3	5.4	5.2	5.4
PHYS SCIENCES AND ENG	Total Time	—	8.2	6.2	5.7	6.9	6.6	5.7	5.8	6.5	6.2	5.8	6.0	7.9	6.3
	Registered Time	—	4.8	5.3	5.0	5.0	5.3	4.9	5.1	5.1	5.1	5.0	5.0	5.1	5.1
MATHEMATICS	Total Time	—	—	8.8	6.0	5.2	6.2	5.0	6.0	5.9	5.8	5.1	5.4	7.5	5.9
	Registered Time	—	—	6.0	5.2	4.9	5.2	4.6	5.2	4.9	5.1	4.4	4.9	4.7	5.0
PHYSICS AND ASTRONOMY	Total Time	—	9.7	7.0	6.3	—	6.9	5.9	6.1	6.4	6.2	5.6	6.1	8.1	6.4
	Registered Time	—	5.2	5.7	5.8	—	6.0	5.3	5.6	5.6	5.6	5.1	5.4	5.8	5.6
Elementary Particles	Total Time	—	—	—	—	—	—	—	5.4	—	5.9	5.7	5.7	7.2	5.9
	Registered Time	—	—	—	—	—	—	—	5.2	—	5.3	5.6	5.1	5.8	5.3
Solid State	Total Time	—	—	—	6.2	—	6.9	—	6.2	6.3	6.6	5.8	6.2	9.0	6.6
	Registered Time	—	—	—	5.7	—	6.3	—	5.8	5.6	5.9	5.1	5.7	6.1	5.8
CHEMISTRY	Total Time	—	5.3	5.7	5.2	7.3	5.9	5.2	5.1	5.3	5.2	5.2	5.3	7.9	5.6
	Registered Time	—	4.7	5.0	4.7	5.3	4.9	4.6	4.7	4.7	4.7	4.6	4.7	5.1	4.8
Organic	Total Time	—	—	5.1	5.0	—	5.6	5.1	4.9	5.0	5.0	5.0	5.3	8.0	5.2
	Registered Time	—	—	4.7	4.6	—	4.8	4.3	4.6	4.3	4.3	4.6	4.7	5.1	4.6
Physical	Total Time	—	—	—	5.8	—	6.4	5.6	5.3	5.6	5.6	5.2	5.6	7.8	5.9
	Registered Time	—	—	—	5.0	—	5.1	4.9	4.8	4.8	4.9	4.4	4.8	5.0	4.9
EARTH SCIENCES	Total Time	—	—	—	7.8	—	7.9	—	6.7	8.5	7.4	6.5	7.8	7.6	7.6
	Registered Time	—	—	—	5.9	—	6.1	—	5.5	5.4	5.5	5.0	5.5	5.2	5.5
ENGINEERING	Total Time	—	10.3	—	5.4	—	7.6	8.7	6.3	7.2	6.5	7.0	6.3	8.0	6.9
	Registered Time	—	4.4	—	5.0	—	5.7	4.7	5.3	5.1	5.1	5.3	5.0	5.1	5.1
Chemical	Total Time	—	—	—	5.0	—	6.0	—	5.8	6.3	5.4	6.0	5.4	7.7	5.9
	Registered Time	—	—	—	4.6	—	4.7	—	4.6	5.0	4.6	4.4	4.7	5.1	4.7
Electrical	Total Time	—	—	—	5.4	—	7.7	—	6.2	7.0	6.8	—	6.1	7.6	6.8
	Registered Time	—	—	—	5.1	—	6.6	—	5.2	5.3	5.5	—	5.2	5.0	5.3

TABLE 16

(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution													
		Baccalaureate				Master's				Doctorate				Foreign Bacc Inst	Total All Types
		Public		Private		Public		Private		Public		Private			
		≤1,000	>1,000	≤500	>500	≤2,000	>2,000	≤1,000	>1,000	≤8,000	>8,000	≤2,000	>2,000		
BIOLOGICAL SCIENCES	Total Time	—	6.6	7.2	6.8	6.8	6.9	6.3	6.6	7.4	7.1	5.8	6.9	8.7	7.3
	Registered Time	—	5.3	5.7	5.3	5.1	5.3	5.2	5.4	5.3	5.3	5.2	5.6	5.1	5.3
AGRICULTURE AND FORESTRY	Total Time	—	6.6	—	7.2	—	5.9	—	—	7.7	7.0	—	8.8	8.7	7.8
	Registered Time	—	5.7	—	5.2	—	4.7	—	—	5.3	5.1	—	5.8	4.8	5.1
HEALTH SCIENCES	Total Time	—	—	—	9.0	—	9.0	—	6.3	7.8	8.6	5.8	9.6	9.3	8.6
	Registered Time	—	—	—	5.6	—	5.7	—	5.2	5.3	5.5	5.6	6.0	5.6	5.6
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	Total Time	—	—	6.6	6.2	—	6.9	5.8	6.1	6.6	6.6	5.5	6.2	8.2	6.8
	Registered Time	—	—	5.4	5.3	—	5.6	5.1	5.2	5.2	5.2	4.9	5.6	5.2	5.3
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	Total Time	—	—	8.1	7.0	—	7.0	6.2	7.2	7.9	6.8	6.1	6.9	9.1	7.3
	Registered Time	—	—	5.8	5.4	—	5.5	5.3	5.7	5.4	5.3	5.7	5.4	5.2	5.3
ECOLOGY, HYDROBIOLOGY	Total Time	—	—	—	—	—	—	—	—	—	7.6	—	—	—	7.3
	Registered Time	—	—	—	—	—	—	—	—	—	5.2	—	—	—	5.3
BOTANY, ZOOLOGY, GENERAL BIOLOGY	Total Time	—	6.3	8.3	7.0	7.3	6.8	5.5	6.8	7.6	7.4	—	6.2	9.1	7.2
	Registered Time	—	5.3	6.1	5.3	5.1	5.3	5.1	5.3	5.7	5.8	—	5.3	5.3	5.4
SOCIAL SCIENCES	Total Time	—	10.6	9.0	7.8	9.7	8.2	8.6	7.0	7.8	7.5	7.1	7.9	9.2	8.0
	Registered Time	—	4.9	5.8	5.2	4.8	5.9	5.4	5.1	5.0	5.3	5.7	5.3	5.3	5.3
PSYCHOLOGY	Total Time	—	—	10.7	7.1	—	7.7	8.0	6.6	6.7	6.6	7.0	7.1	7.7	7.1
	Registered Time	—	—	6.5	5.3	—	6.2	5.6	5.3	5.1	5.3	5.9	5.5	5.2	5.5
ANTHROPOLOGY AND ARCHEOLOGY	Total Time	—	—	—	—	—	—	—	—	—	7.8	—	10.1	11.2	9.3
	Registered Time	—	—	—	—	—	—	—	—	—	5.6	—	5.9	5.7	5.5
SOCIOLOGY	Total Time	—	—	—	9.7	—	10.0	—	8.5	8.2	8.1	—	9.1	11.0	9.1
	Registered Time	—	—	—	5.9	—	6.2	—	5.2	5.2	5.8	—	5.5	6.1	5.8
ECONOMICS AND ECONOMETRICS	Total Time	—	—	—	7.8	—	7.4	7.5	6.7	7.4	7.8	—	8.0	8.9	7.9
	Registered Time	—	—	—	4.9	—	4.9	4.7	4.7	4.8	5.0	--	4.8	5.1	4.9
POLIT SCI, INT RELAT	Total Time	—	15.0	—	8.3	—	8.7	8.5	7.7	9.8	8.7	—	7.9	10.5	8.6
	Registered Time	—	5.1	—	5.0	—	5.7	5.5	4.9	5.3	5.3	—	5.3	6.0	5.3

TABLE 16

(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution													
		Baccalaureate				Master's				Doctorate				Foreign Bacc Inst	Total All Types
		Public		Private		Public		Private		Public		Private			
		≤1,000	>1,000	≤500	>500	≤2,000	>2,000	≤1,000	>1,000	≤8,000	>8,000	≤2,000	>2,000		
ARTS AND HUMANITIES	Total Time	—	10.9	10.7	10.1	9.5	9.2	10.0	9.3	9.9	9.5	8.9	9.0	10.3	9.5
	Registered Time	—	5.5	5.7	5.7	5.2	5.9	5.6	5.6	5.7	5.7	5.9	5.8	5.4	5.7
HISTORY	Total Time	—	10.5	9.1	9.3	—	8.1	8.9	8.2	9.0	9.1	9.0	8.7	10.0	8.9
	Registered Time	—	5.3	6.0	5.6	—	5.6	5.6	5.6	5.7	5.8	6.0	5.9	5.8	5.7
ENGLISH AND AMERICAN LANG AND LIT	Total Time	—	11.3	11.3	10.3	—	9.0	10.7	9.6	10.7	9.8	8.3	9.1	10.8	9.7
	Registered Time	—	5.9	5.8	5.9	—	6.3	6.6	5.7	5.9	6.0	5.7	5.8	5.5	5.9
MODERN FOREIGN LANG AND LIT	Total Time	—	—	—	10.3	—	9.9	—	10.0	9.3	9.3	7.3	8.9	10.9	9.5
	Registered Time	—	—	—	5.9	—	6.2	—	5.3	5.5	5.4	5.6	5.9	5.3	5.7
CLASSIC LANG AND LIT	Total Time	—	—	—	12.0	—	—	—	8.7	—	8.1	—	8.0	8.0	8.3
	Registered Time	—	—	—	5.3	—	—	—	5.7	—	6.5	—	5.6	5.2	5.6
PHILOSOPHY	Total Time	—	—	—	7.2	—	—	9.0	7.1	—	7.2	—	7.3	10.0	7.6
	Registered Time	—	—	—	5.6	—	—	5.5	4.9	—	5.3	—	5.4	5.5	5.4
SPEECH AND DRAMATIC ARTS	Total Time	—	—	—	10.3	—	9.3	—	10.5	9.3	10.3	—	11.6	—	10.4
	Registered Time	—	—	—	5.3	—	5.2	—	5.0	5.5	5.2	—	5.1	—	5.2
FINE ARTS AND MUSIC	Total Time	—	—	—	14.3	—	11.7	14.0	11.8	13.9	12.0	—	11.4	9.5	12.2
	Registered Time	—	—	—	6.9	—	7.1	5.3	6.0	5.7	6.1	—	6.0	5.1	6.0
PROFESSIONAL FIELDS	Total Time	—	15.5	10.2	11.5	14.2	12.1	10.5	10.9	10.7	10.1	—	11.1	9.8	10.8
	Registered Time	—	5.3	6.3	7.0	8.5	6.0	6.7	6.7	4.8	5.5	—	6.3	5.3	6.0
BUSINESS ADMINISTRATION	Total Time	—	—	—	9.1	—	9.7	—	10.7	9.6	9.4	—	9.8	9.0	9.6
	Registered Time	—	—	—	5.1	—	5.9	—	5.6	4.5	5.2	—	5.6	5.4	5.3
RELIGION AND THEOLOGY	Total Time	—	—	11.1	12.0	—	—	—	10.7	—	11.6	—	11.7	12.0	11.6
	Registered Time	—	—	7.0	7.9	—	—	—	7.2	—	7.5	—	7.5	6.7	7.3
EDUCATION	Total Time	13.0	13.3	15.0	14.2	13.6	13.7	15.1	14.3	13.5	13.5	14.8	14.0	12.2	13.8
	Registered Time	7.0	6.8	6.5	7.2	6.3	7.0	8.6	7.2	5.9	6.6	7.3	7.4	5.4	6.8

Note: Medians were not calculated for types with less than 25 doctorate recipients.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Time lapse is affected by the amount of institutional transfer during graduate work and by the decision to take a master's degree. Table 17 shows the relations.

Students who omit the master's degree finish their doctoral work sooner, whether the time lapse is measured by total time or registered time. This is true for both United States and foreign students and holds for almost all broad fields (see patterns B, D, and H).

Students who receive each degree at a different institution take the longest time to complete their work. This is true for almost all broad fields and for total time and registered time (see patterns F and K).

The above relation may be caused by different student abilities in the different patterns, but no data exist to verify this guess.

Strangely, the shortest route is not increasing in popularity. There is no significant increase in the percentage of doctoral students who bypass the master's degree (see Tables 11 and 12).

TABLE 17

Time Lapse, Baccalaureate to Doctorate, by Institutional Transfer Pattern and Field, FY 1964 - 1966

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
TOTAL ALL FIELDS	Total Time	7.3	5.4	7.5	5.6	9.8	11.8	7.9	7.0	9.7	9.3	10.4
	Registered Time	5.4	4.7	5.3	4.8	5.9	6.3	4.9	4.3	5.7	5.7	5.9
PHYSICAL SCIENCES AND ENGINEERING	Total Time	5.9	5.0	6.0	5.1	7.6	8.9	7.3	6.6	9.1	8.6	9.2
	Registered Time	5.1	4.3	5.1	4.6	5.7	6.1	4.8	4.2	5.7	5.7	6.1
MATHEMATICS	Total Time	5.3	4.6	5.4	4.8	7.2	8.8	6.8	5.3	9.5	8.6	9.7
	Registered Time	4.9	4.1	4.9	4.3	5.4	6.2	4.1	3.7	5.5	5.1	—
PHYSICS AND ASTRONOMY	Total Time	5.9	5.2	6.2	5.8	7.7	9.0	7.4	6.6	10.0	9.0	9.7
	Registered Time	5.4	5.0	5.6	5.2	6.4	6.8	5.1	4.9	5.9	6.4	6.8
Elementary Particles	Total Time	5.8	5.2	5.4	5.6	6.7	7.7	—	6.6	—	—	—
	Registered Time	5.6	5.0	5.1	5.1	6.2	6.8	—	4.7	—	—	—
Solid State	Total Time	6.1	5.7	6.3	5.8	7.1	9.3	7.3	—	—	9.7	—
	Registered Time	5.4	5.5	5.7	5.2	6.3	6.9	5.1	—	—	6.5	—
CHEMISTRY	Total Time	6.3	5.0	5.4	4.9	7.1	9.0	7.4	6.6	9.2	8.7	10.3
	Registered Time	5.2	4.2	4.8	4.3	5.8	6.0	5.0	4.2	6.1	5.8	6.1
Organic	Total Time	5.2	4.8	5.2	4.8	6.9	7.8	7.0	6.3	9.3	9.0	—
	Registered Time	4.8	4.0	4.8	4.3	5.7	5.9	4.6	4.1	6.1	6.0	—
Physical	Total Time	6.5	5.3	5.8	5.2	7.8	10.0	—	7.1	—	8.2	—
	Registered Time	5.6	4.6	4.9	4.7	6.2	6.3	—	4.2	—	5.9	—
EARTH SCIENCES	Total Time	7.3	6.2	7.6	6.0	7.9	8.3	7.2	6.8	—	8.8	8.2
	Registered Time	5.3	4.7	5.6	5.0	5.7	6.0	5.0	4.3	—	5.8	6.0
ENGINEERING	Total Time	5.9	5.0	6.2	5.2	7.9	9.1	7.3	6.9	8.9	8.2	8.9
	Registered Time	5.0	4.1	5.0	4.3	5.5	5.9	4.8	4.2	5.6	5.2	5.8
Chemical	Total Time	5.7	4.9	5.4	4.7	6.8	8.6	7.3	—	8.3	8.1	—
	Registered Time	4.8	4.1	4.7	4.1	5.1	5.8	5.0	—	5.5	5.1	—
Electrical	Total Time	5.9	—	6.1	—	8.0	8.2	6.5	6.8	8.6	8.0	8.5
	Registered Time	5.2	—	5.1	—	5.9	6.1	4.7	3.8	5.5	5.5	5.8

TABLE 17

(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
BIOLOGICAL SCIENCES	Total Time	7.1	5.1	6.6	5.6	8.2	9.5	8.1	7.3	9.3	8.9	10.7
	Registered Time	5.4	4.6	5.2	4.8	5.8	6.1	4.8	4.3	5.2	5.7	5.9
AGRICULTURE AND FORESTRY	Total Time	7.1	5.7	6.3	5.5	8.1	9.9	8.0	8.8	9.0	8.5	10.3
	Registered Time	5.2	4.4	4.9	4.6	5.3	5.6	4.4	4.2	4.8	5.1	5.4
HEALTH SCIENCES	Total Time	7.5	5.0	7.6	6.3	9.8	11.5	7.7	8.6	9.9	10.2	—
	Registered Time	5.7	4.1	5.1	4.7	6.2	6.6	5.3	4.5	6.6	6.9	—
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	Total Time	6.3	5.4	6.3	5.5	8.2	9.2	8.6	6.4	9.3	8.2	10.6
	Registered Time	5.3	4.7	5.3	4.8	5.9	6.3	5.0	4.4	5.4	5.9	6.4
ANAT, CYTOL, ENTOMOL, GENETICS, MICROBIOL, EMBRY	Total Time	7.0	5.1	6.6	5.5	8.0	9.0	8.6	7.7	10.2	9.6	10.5
	Registered Time	5.6	4.7	5.2	4.9	5.9	6.1	4.9	4.5	5.3	6.0	6.0
ECOLOGY AND HYDROBIOLOGY	Total Time	—	—	6.5	—	8.5	—	—	—	—	—	—
	Registered Time	—	—	5.3	—	5.7	—	—	—	—	—	—
BOTANY, ZOOLOGY, GENERAL BIOLOGY	Total Time	7.8	4.7	6.6	5.3	7.9	9.0	8.0	—	—	9.8	—
	Registered Time	5.9	4.3	5.3	4.9	5.8	6.0	4.8	—	—	5.7	—
SOCIAL SCIENCES	Total Time	7.2	6.8	7.0	6.1	9.2	11.0	8.1	6.6	11.4	10.2	12.0
	Registered Time	5.1	5.3	5.1	4.8	5.7	6.0	4.8	4.2	6.4	5.5	5.8
PSYCHOLOGY	Total Time	6.3	6.7	6.1	6.0	9.0	10.3	6.3	5.1	—	9.2	—
	Registered Time	5.2	5.7	5.1	5.0	6.2	6.4	4.5	4.2	—	5.1	—
ANTHROPOLOGY AND ARCHEOLOGY	Total Time	10.0	7.5	8.1	7.8	11.5	10.8	—	—	—	—	—
	Registered Time	—	—	4.8	5.0	7.1	6.6	—	—	—	—	—
SOCIOLOGY	Total Time	8.1	—	7.7	6.8	9.2	12.0	—	—	—	10.7	—
	Registered Time	5.7	—	5.6	4.8	5.9	6.6	—	—	—	—	—
ECONOMICS AND ECONOMETRICS	Total Time	7.7	6.6	7.5	5.8	8.5	9.7	7.9	6.8	11.0	9.9	10.8
	Registered Time	4.9	4.3	4.8	4.3	5.1	5.4	4.6	4.0	6.1	5.4	5.2
POLITICAL SCIENCE, INT RELAT	Total Time	8.0	—	7.6	6.9	9.3	11.0	8.5	—	11.6	12.0	—
	Registered Time	5.1	—	5.0	4.6	5.7	5.8	5.3	—	6.8	—	—
ARTS AND HUMANITIES	Total Time	9.0	6.8	8.2	7.2	11.2	11.7	8.9	8.8	11.8	11.2	12.0
	Registered Time	6.0	5.1	5.3	4.9	6.1	6.1	5.0	4.6	6.2	6.0	5.9
HISTORY	Total Time	8.7	7.8	7.8	7.8	11.6	11.3	8.3	—	—	—	—
	Registered Time	5.8	5.4	5.3	5.3	6.1	6.1	5.6	—	—	—	—
ENGLISH AND AMERICAN LANG AND LIT	Total Time	9.8	7.5	8.8	6.6	11.4	10.9	9.0	—	—	11.5	—
	Registered Time	6.6	5.7	5.4	4.7	—	6.2	—	—	—	—	—
MODERN FOREIGN LANG AND LIT	Total Time	8.8	5.7	9.8	7.2	10.6	12.8	9.2	9.7	12.6	11.2	—
	Registered Time	6.0	4.8	5.3	4.8	6.0	6.6	4.9	4.7	6.5	6.1	—

TABLE 17

(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
CLASSIC LANG AND LIT	Total Time	—	—	7.2	7.5	—	11.7	—	—	—	—	—
	Registered Time	—	—	4.8	5.3	—	7.3	—	—	—	—	—
PHILOSOPHY	Total Time	7.9	6.3	6.9	6.2	10.2	10.2	—	—	—	—	—
	Registered Time	6.0	4.7	5.0	4.8	6.2	5.9	—	—	—	—	—
SPEECH AND DRAMATIC ARTS	Total Time	9.5	—	8.0	—	10.6	11.8	—	—	—	—	—
	Registered Time	5.7	—	4.9	—	5.5	5.3	—	—	—	—	—
FINE ARTS AND MUSIC	Total Time	9.8	—	10.9	9.5	13.7	14.0	—	—	—	—	—
	Registered Time	6.3	—	5.8	4.7	5.9	6.4	—	—	—	—	—
PROFESSIONAL FIELDS	Total Time	8.3	—	9.7	11.2	10.5	13.2	8.8	9.1	9.8	11.5	10.1
	Registered Time	5.3	—	5.9	6.9	5.6	6.3	4.9	5.3	5.2	6.0	—
BUSINESS ADMINISTRATION	Total Time	8.1	—	8.6	—	9.1	11.9	8.3	—	9.0	—	—
	Registered Time	5.2	—	5.2	—	5.1	5.7	5.1	—	5.6	—	—
RELIGION AND THEOLOGY	Total Time	—	—	10.8	11.3	10.2	13.1	—	—	—	—	—
	Registered Time	—	—	7.2	7.2	7.0	8.2	—	—	—	—	—
EDUCATION	Total Time	12.6	—	13.4	13.8	13.1	15.0	11.6	12.2	11.9	12.8	15.6
	Registered Time	6.7	—	6.8	6.7	6.8	7.0	5.1	—	5.3	6.1	5.7

*For definition of transfer patterns (A through K), refer to Table 11, p. 53.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER III FIRST POSTDOCTORAL EMPLOYMENT

- FIRST POSTDOCTORAL EMPLOYER
- FIRST POSTDOCTORAL WORK ACTIVITY
- PROFESSIONAL IDENTIFICATION
- GEOGRAPHIC DISTRIBUTION

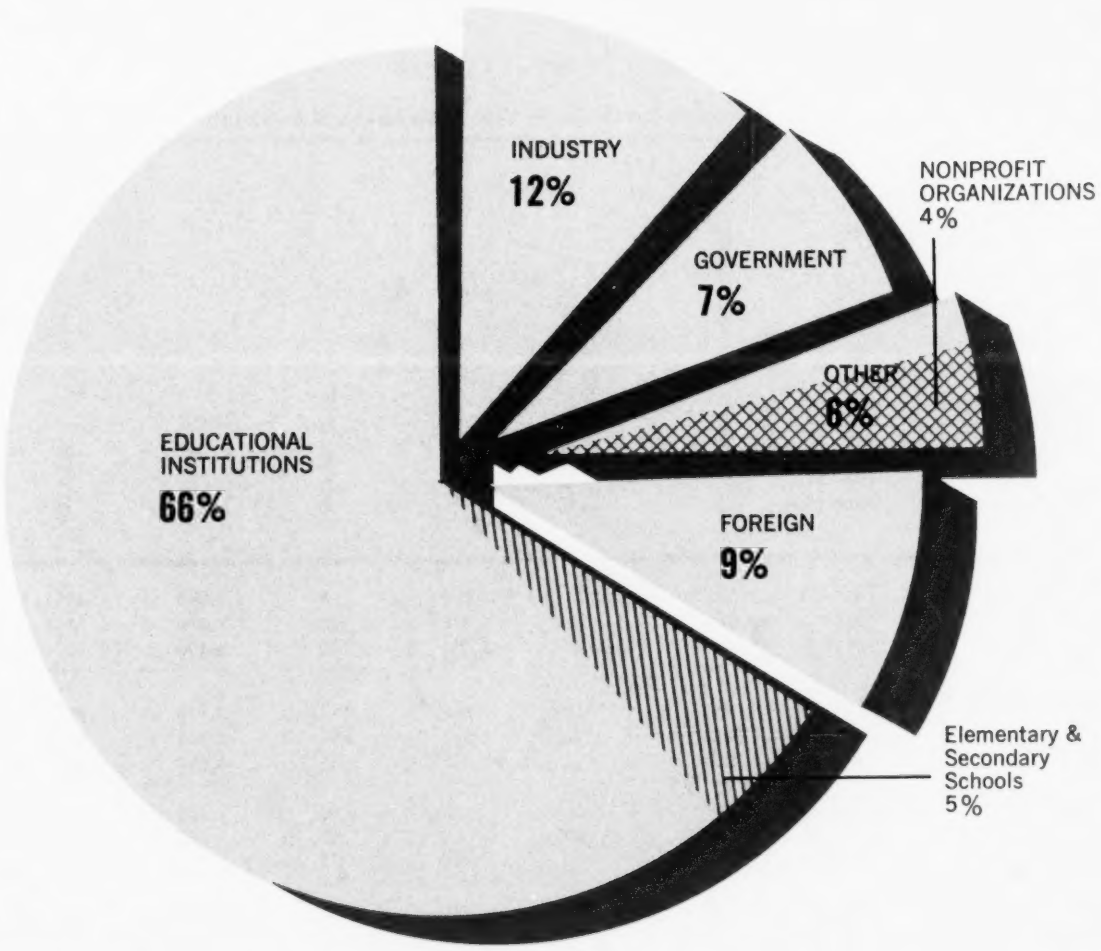
The preceding sections have described trends in the numbers of doctorates granted in United States universities and have treated certain aspects of the doctoral education process in the universities. This section focuses on the transition between formal education and professional employment.

The data derive primarily from three questions on the Survey of Earned Doctorates questionnaire. One question asks the new doctorate recipient to indicate his expected type of postdoctoral employer (university, industry, etc.); a second question asks him to list his expected primary work activity on the job (teaching, research, etc.); and a third asks him in what state or country he expects to work.

The data deal with the doctorate recipients' intentions. How accurate are the statements? A follow-up study has been conducted to determine the validity of the answers. Over 2,500 records were selected from the 1962 Doctorate Records File and matched name for name with records of the 1964 National Register of Scientific and Technical Personnel maintained by the National Science Foundation. For each person, a comparison was made of his intended type of employer and work activity as reported on the 1962 Doctorate questionnaire with his reported employer and work activity on the 1964 National Register questionnaire. Even allowing for the two-year lag, the results show good validity for the Doctorate Records File data. When the reports of individuals are compared, 85 percent of the respondents were working for the type of employer and engaged in the kind of work activity they had anticipated. When category totals are compared (i.e., the percentage in research or the percentage employed by industry), the correspondence is very close, the average agreement being 95 percent or better. (Those who thought they would be employed by, say industry, and were not, are partially balanced by those who were employed by industry but had not expected to be.)

Therefore, while the following data strictly must be labeled "intended employer" or "intended work activity," they are reliable statements about future employment status.

FIGURE 21
TYPE OF FIRST POSTDOCTORAL EMPLOYER OF DOCTORATE RECIPIENTS OF FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIRST POSTDOCTORAL EMPLOYER

Figure 21 and Table 18 show the type of postdoctoral employer for the doctorate recipients of FY 1958 - 1960, 1961 - 1963, and 1964 - 1966. Colleges and universities are the major employers of new doctorate recipients, and they have been attracting greater percentages in each time period. This trend is especially marked in the physical sciences which show an increase in university employment from 39 percent to 48 percent during the nine-year period. Arts and humanities graduates have been employed almost exclusively by colleges and universities.

Industry is a major employer of physical science graduates but employs fewer than 10 percent in other fields. However, the percentage of physical science doctorate recipients entering industry has fallen off rapidly from 44 percent in 1958 - 1960 to 30 percent in 1964 - 1966. Mathematics, physics, and chemistry show especially sharp declines in industrial employment.

Government employs sizeable numbers of biological and social scientists, but the percentages are declining. Relatively few graduates from other fields enter government service.

Fewer than 10 percent of the new doctorate recipients accepted employment in foreign countries. Since 14 percent were foreign citizens, it follows that some foreign students do not return to their home countries immediately upon completion of graduate work. The next chapter discusses in detail the employment and geographic movement of the foreign doctorate recipients.

TABLE 18

Doctorate Recipients by First Postdoctoral Employer, by Field, FY 1958-1966

Field of Doctorate	Year of Doctorate	Doctorate Recipients by Type of Postdoctoral Employer: COLLEGE AND UNIVERSITY N	%	ELEMENTARY AND SECONDARY SCHOOL N	%	GOVERNMENT N	%	NONPROFIT N	%	INDUSTRY N	%	OTHER N	%	FOREIGN EMPLOYER N	%	TOTAL WITH KNOWN EMPLOYER N(100%)	UNKNOWN EMPLOYER N
TOTAL ALL FIELDS	1958-60	13,985	58	1,495	6	2,017	8	918	4	3,960	16	479	2	1,442	6	24,296	3,420
	1961-63	18,877	59	1,722	5	2,410	8	1,305	4	4,319	13	763	2	2,828	9	32,224	2,414
	1964-66	27,362	61	2,082	5	2,921	7	1,760	4	5,499	12	1,127	2	3,961	9	44,712	3,779
PHYSICAL SCIENCES AND ENGINEERING	1958-60	2,817	39	35	1	449	6	167	2	3,179	44	131	2	414	6	7,192	1,058
	1961-63	4,643	45	27	—	598	6	374	4	3,521	34	345	3	912	9	10,420	813
	1964-66	7,259	48	5	—	845	6	498	3	4,540	30	597	4	1,338	9	15,082	1,385
MATHEMATICS	1958-60	464	65	5	1	38	5	13	2	139	20	9	1	45	6	713	105
	1961-63	782	69	6	1	33	3	39	3	152	14	20	2	93	8	1,125	79
	1964-66	1,414	74	2	—	47	3	58	3	191	10	39	2	161	8	1,912	128
PHYSICS AND ASTRONOMY	1958-60	607	47	11	1	131	10	46	4	418	32	21	2	57	4	1,291	251
	1961-63	981	51	6	—	166	9	110	6	380	20	90	4	187	10	1,920	205
	1964-66	1,472	55	—	—	229	9	101	4	488	18	125	5	242	9	2,657	302
Elementary Particles	1958-60	72	57	1	1	11	9	5	4	28	22	1	1	7	6	125	15
	1961-63	182	58	1	—	27	9	26	8	31	10	10	3	37	12	314	21
	1964-66	315	69	—	—	19	4	21	5	28	6	22	5	52	11	457	31
Solid State	1958-60	98	33	1	—	28	10	8	3	151	50	1	—	13	4	300	53
	1961-63	182	43	1	—	28	7	23	5	143	34	15	3	33	8	425	34
	1964-66	349	46	—	—	61	8	24	3	231	30	31	4	67	9	763	42
CHEMISTRY	1958-60	642	25	9	—	106	4	51	2	1,593	63	47	2	93	4	2,541	554
	1961-63	1,234	38	7	—	165	5	82	3	1,474	45	71	2	230	7	3,263	312
	1964-66	1,716	44	3	—	180	5	88	2	1,501	38	131	3	320	8	3,939	431
Organic	1958-60	201	18	5	1	26		16	1	838	75	13	1	22	2	1,121	225
	1961-63	457	33	3	—	40		26	2	751	54	17	1	87	6	1,381	118
	1964-66	631	39	—	—	50		32	2	753	46	50	3	112	7	1,628	152
Physical	1958-60	198	28	1	—	40		21	3	419	58	10	1	27	4	716	171
	1961-63	368	39	1	—	75	8	34	4	373	39	33	3	62	7	946	73
	1964-66	506	45	3	—	69	6	28	3	364	33	44	4	106	9	1,120	105
EARTH SCIENCES	1958-60	269	44	2	—	90	15	15	2	147	24	10	2	80	13	613	62
	1961-63	296	39	1	—	133	17	31	4	165	22	24	3	112	15	762	55
	1964-66	444	45	—	—	148	15	34	3	210	21	31	3	132	13	999	86
ENGINEERING	1958-60	835	41	8	—	84	4	42	2	882	44	44	2	139	7	2,034	86
	1961-63	1,350	40	7	—	101	3	112	4	1,350	40	140	4	290	9	3,350	162
	1964-66	2,213	40	—	—	241	4	217	4	2,150	38	271	5	483	9	5,575	438
Chemical	1958-60	89	20	2	—	15	3	11	2	292	66	8	2	29	7	446	15
	1961-63	131	20	2	—	13	2	12	2	423	66	16	3	48	7	645	25
	1964-66	204	22	—	—	25	3	14	1	582	63	34	4	64	7	923	84
Electrical	1958-60	191	49	2	—	10	3	10	3	155	40	6	1	17	4	391	23
	1961-63	340	50	2	—	7	1	25	4	243	35	23	3	49	7	689	40
	1964-66	472	43	—	—	43	4	60	5	416	37	42	4	79	7	1,112	97
BIOLOGICAL SCIENCES	1958-60	2,282	58	28	1	527	13	159	4	421	10	109	3	423	11	3,949	985
	1961-63	3,096	58	33	1	640	12	193	4	442	8	126	2	808	15	5,338	496
	1964-66	4,255	59	4	—	776	11	289	4	516	7	184	3	1,135	16	7,159	752

TABLE 18

(continued)

Doctorate Recipients by Type of Postdoctoral Employer

Field of Doctorate	Year of Doctorate	COLLEGE AND UNIVERSITY N	%	ELEMENTARY AND SECONDARY SCHOOL N	%	GOVERNMENT N	%	NONPROFIT N	%	INDUSTRY N	%	OTHER N	%	FOREIGN EMPLOYER N	%	TOTAL WITH KNOWN EMPLOYER N(100%)	UNKNOWN EMPLOYER N
AGRICULTURE AND FORESTRY	1958-60	543	56	4	—	179	18	15	2	79	8	10	1	146	15	976	116
	1961-63	635	51	7	—	201	16	14	1	107	9	24	2	263	21	1,251	122
	1964-66	732	50	1	—	192	13	13	1	141	9	23	2	376	25	1,478	187
HEALTH SCIENCES	1958-60	260	57	2	—	32	7	11	2	90	20	22	5	43	9	460	110
	1961-63	286	52	2	—	46	9	27	5	89	16	22	4	75	14	547	33
	1964-66	428	55	1	—	83	11	36	4	109	14	31	4	94	12	782	74
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	1958-60	453	54	8	1	102	12	65	8	121	14	37	4	54	7	840	357
	1961-63	821	60	5	—	135	10	76	6	117	9	41	3	164	12	1,359	124
	1964-66	1,261	62	2	—	180	9	123	6	127	6	53	3	278	14	2,024	188
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1958-60	471	51	1	—	147	16	42	5	106	12	31	3	120	13	918	217
	1961-63	662	55	10	1	175	15	41	3	102	9	29	2	183	15	1,202	125
	1964-66	936	57	—	—	221	13	85	5	113	7	51	3	243	15	1,649	160
ECOLOGY, HYDROBIOLOGY	1958-60	64	73	2	2	14	16	5	6	—	—	1	1	2	2	88	9
	1961-63	83	64	3	2	24	18	2	2	1	1	2	2	15	11	130	8
	1964-66	85	65	—	—	20	15	5	4	1	1	3	2	16	12	130	10
BOTANY, ZOOLOGY, GEN BIOLOGY	1958-60	491	73	11	2	53	8	21	3	25	4	8	1	58	9	667	176
	1961-63	609	72	6	1	59	7	33	4	26	3	8	1	108	12	849	84
	1964-66	813	74	—	—	80	7	27	3	25	2	23	2	128	12	1,096	133
SOCIAL SCIENCES	1958-60	2,571	59	130	3	719	17	294	7	236	5	145	3	253	6	4,348	627
	1961-63	3,133	58	143	3	827	15	372	7	227	4	191	4	487	9	5,380	447
	1964-66	4,328	64	82	1	833	12	497	7	255	4	203	3	610	9	6,808	539
PSYCHOLOGY	1958-60	886	45	107	5	503	26	192	10	141	7	98	5	39	2	1,966	339
	1961-63	1,119	48	115	5	555	23	234	10	126	5	111	5	90	4	2,350	219
	1964-66	1,556	54	72	3	561	20	325	11	132	5	98	3	123	4	2,867	234
ANTHROPOLOGY AND ARCHEOLOGY	1958-60	123	73	7	4	11	6	8	5	3	2	3	2	13	8	168	39
	1961-63	153	70	2	1	12	5	12	5	3	1	4	2	33	15	219	20
	1964-66	213	78	—	—	10	4	11	4	—	—	2	1	37	13	273	21
SOCIOLOGY	1958-60	341	74	5	1	29	6	32	7	13	3	9	2	30	7	459	41
	1961-63	387	74	8	2	27	5	25	5	8	2	6	1	60	11	521	41
	1964-66	531	81	2	—	23	3	27	4	5	1	11	2	60	9	659	39
ECONOMICS AND ECONOMETRICS	1958-60	642	71	1	—	75	8	31	3	61	7	14	2	83	9	907	103
	1961-63	766	63	6	1	127	10	49	4	70	6	29	2	164	14	1,211	70
	1964-66	996	63	2	—	142	9	65	4	87	6	53	3	236	15	1,581	128
POLIT SCI AND INT RELAT	1958-60	397	67	5	1	80	14	15	2	13	2	16	3	63	11	589	90
	1961-63	498	67	10	1	78	10	24	3	13	2	28	4	97	13	748	73
	1964-66	766	74	3	—	75	7	38	4	21	2	29	3	102	10	1,034	94
ARTS AND HUMANITIES	1958-60	3,128	87	121	3	76	2	75	2	34	1	41	1	125	4	3,600	338
	1961-63	3,854	87	107	3	60	1	88	2	42	1	37	1	231	5	4,419	301
	1964-66	5,606	89	91	1	80	1	98	2	32	1	50	1	370	6	6,327	478
HISTORY	1958-60	763	82	44	5	45	5	26	3	6	—	10	1	34	4	928	84
	1961-63	885	85	30	3	26	2	24	2	10	1	11	1	58	6	1,044	86
	1964-66	1,419	86	32	2	42	3	39	2	5	—	21	1	97	6	1,655	124

TABLE 18

(continued)

Doctorate Recipients by Type of Postdoctoral Employer

Field of Doctorate	Year of Doctorate	COLLEGE AND UNIVERSITY N	%	ELEMENTARY AND SECONDARY SCHOOL N	%	GOVERNMENT N	%	NONPROFIT N	%	INDUSTRY N	%	OTHER N	%	FOREIGN EMPLOYER N	%	TOTAL WITH KNOWN EMPLOYER N	(100%)	UNKNOWN EMPLOYER N
ENGLISH AND AMERICAN LANG AND LIT	1958-60	919	93	14	1	5	1	4	—	9	1	11	1	31	3	993		66
	1961-63	1,152	91	23	2	2	—	8	1	9	1	8	1	60	5	1,262		67
	1964-66	1,608	92	19	1	2	—	7	1	4	—	13	1	93	5	1,746		117
MODERN FOREIGN LANG AND LIT	1958-60	466	86	19	4	8	1	9	2	5	1	3	—	33	6	543		78
	1961-63	564	85	16	2	8	1	8	1	5	1	4	1	57	9	662		69
	1964-66	978	88	7	1	9	1	12	1	5	—	6	1	91	8	1,108		98
CLASSIC, LANG AND LIT	1958-60	88	82	7	6	1	1	4	4	1	1	1	1	5	5	107		9
	1961-63	120	79	8	5	—	—	6	4	—	—	1	1	17	11	152		9
	1964-66	177	82	6	3	1	—	5	2	1	—	2	1	24	11	216		21
PHILOSOPHY	1958-60	263	88	7	2	1	—	8	3	2	1	4	1	14	5	299		40
	1961-63	333	89	3	1	2	—	11	3	3	1	4	1	19	5	375		36
	1964-66	389	88	—	—	1	—	11	2	4	1	—	—	39	9	444		42
SPEECH AND DRAMATIC ARTS	1958-60	303	85	14	4	15	4	15	4	7	2	4	1	1	—	359		20
	1961-63	421	85	15	3	21	4	19	4	10	2	3	1	7	1	496		15
	1964-66	567	89	14	2	22	4	14	2	9	1	4	1	6	1	636		34
FINE ARTS AND MUSIC	1958-60	304	88	16	4	1	—	9	3	4	1	7	2	6	2	347		40
	1961-63	353	89	12	3	1	—	12	3	5	1	6	2	9	2	398		17
	1964-66	431	90	13	3	2	—	10	2	3	—	4	1	18	4	481		37
PROFESSIONAL FIELDS	1958-60	619	66	49	5	16	2	113	12	49	5	21	2	74	8	941		90
	1961-63	863	70	23	2	28	2	120	10	53	4	17	1	131	11	1,235		81
	1964-66	1,210	73	7	—	26	2	120	7	90	5	42	3	161	10	1,656		204
BUSINESS ADMINISTRATION	1958-60	303	81	1	—	7	2	2	1	34	9	12	3	17	4	376		21
	1961-63	454	82	—	—	10	2	7	1	42	8	7	1	35	6	555		16
	1964-66	652	78	1	—	9	1	13	2	75	9	25	3	59	7	834		67
RELIGION AND THEOLOGY	1958-60	187	50	44	12	1	—	109	29	2	1	1	—	32	8	376		46
	1961-63	246	59	22	5	2	—	102	25	—	—	2	—	45	11	419		37
	1964-66	344	69	5	1	2	1	100	20	—	—	1	—	44	9	496		54
EDUCATION	1958-60	2,568	60	1,132	26	230	5	110	3	41	1	32	1	153	4	4,266		322
	1961-63	3,288	60	1,389	25	257	5	158	3	34	1	47	1	259	5	5,432		276
	1964-66	4,704	61	1,893	25	361	5	258	3	66	1	51	1	347	4	7,680		421

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIRST POSTDOCTORAL WORK ACTIVITY

The intended primary work activity of the doctorate recipients is shown in Figure 22 and Table 19, but several precautions should be observed in interpreting the data. The first column, Fellowship, refers to those who expect to be working on postdoctoral research fellowships, and for some purposes the column might reasonably be combined with the second one, Research, to give an over-all research percentage. Also, the data refer only to primary work activity. Many persons work in several kinds of activities, but the questionnaire asked for only the primary function. And finally, it is important to remember that the data refer to the work activity of the doctorate recipients on their first postdoctoral job. As their years of experience increase, their functions tend to change.

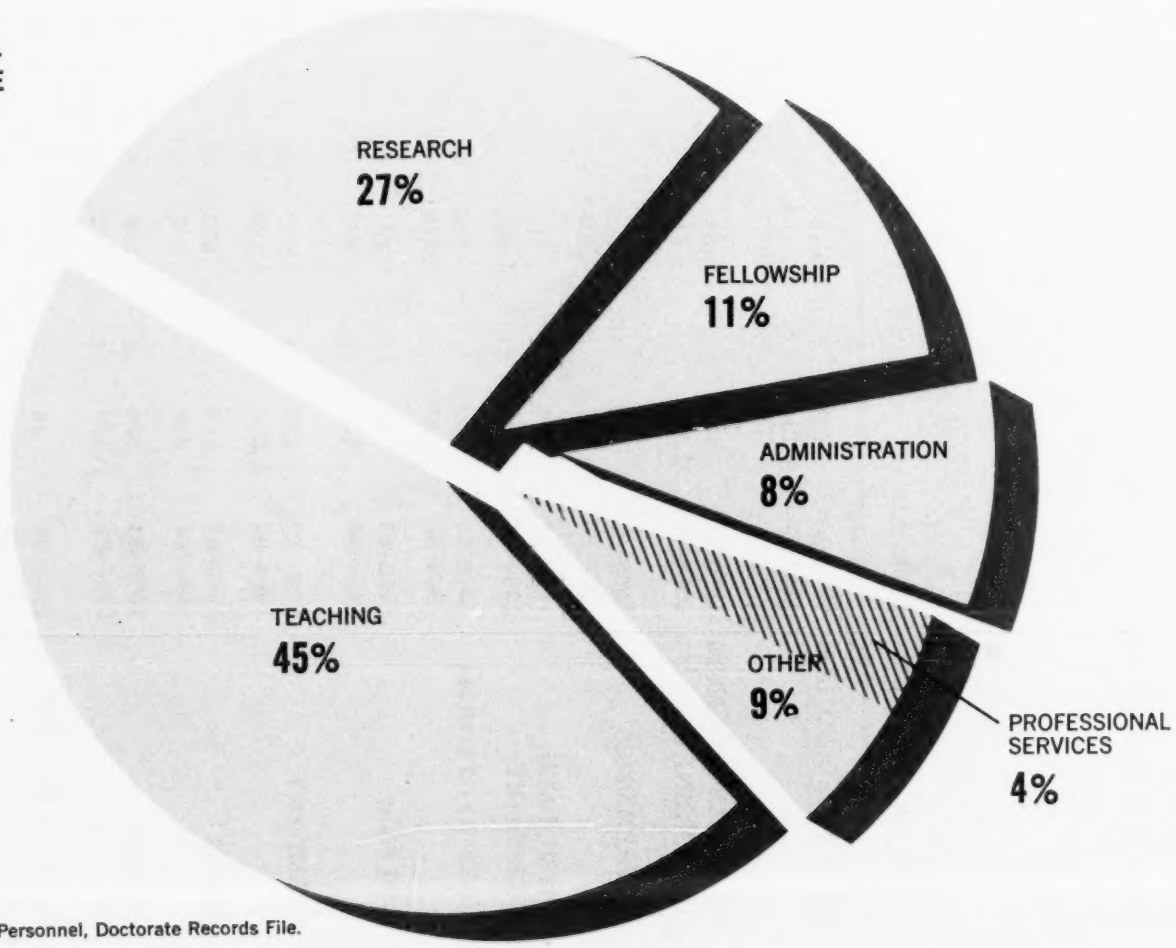
Table 19 shows that research is the most common primary work activity of the natural scientists and engineers. About two thirds of this group are engaged in either staff research or postdoctoral fellowship research. The combination of research and research fellowships accounts for only one fourth of the social scientists and about one in twenty in other fields. For all fields combined, research or research fellowships were the primary work activities for about one third of the new "research doctorates."

Most fields show some increase in the percentage of persons choosing teaching as a postdoctoral work activity. Graduates in arts and humanities fields are engaged almost exclusively in this activity. In contrast, fewer than one third of the natural scientists teach as a primary work activity.

Education is the only field having appreciable numbers who enter administration immediately after receipt of the doctorate. Many of these were principals, superintendents, or curriculum supervisors before they had completed the doctoral requirements.

Table 20 (p. 89) shows the relations between the type of postdoctoral employer and the kind of work activity performed for these employers. The relations are what one would expect. Most persons hired by colleges and universities report teaching as a primary work activity; doctorate recipients in elementary or secondary schools are administrators; the majority of those employed by governmental, nonprofit, or industrial agencies engage in research. About 40 percent of those accepting a job in a foreign country plan to teach, and the remainder expect to do research or have a postdoctoral research fellowship.

FIGURE 22
TYPE OF FIRST POSTDOCTORAL WORK ACTIVITY OF DOCTORATE RECIPIENTS OF FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 19

Doctorate Recipients by First Postdoctoral Work Activity, by Field, FY 1962 - 1966

Field of Doctorate	Year of Doctorate	Doctorate Recipients by Type of Postdoctoral Work Activity: Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
TOTAL ALL FIELDS	1962-63	2,017	10	6,424	31	8,640	42	1,544	8	978	5	949	4	20,552	3,675
	1964-66	4,916	11	11,836	27	19,330	45	3,381	8	1,772	4	2,324	5	43,559	4,932
PHYSICAL SCIENCES AND ENGINEERING	1962-63	990	15	3,621	53	1,667	24	74	1	44	1	384	6	6,780	1,188
	1964-66	2,376	16	6,918	48	4,053	28	182	1	9	—	1,057	7	14,595	1,872
MATHEMATICS	1962-63	66	9	250	33	378	50	6	1	9	1	48	6	757	115
	1964-66	127	7	558	30	1,058	57	12	1	2	—	102	5	1,859	181
PHYSICS AND ASTRONOMY	1962-63	225	18	785	61	215	17	13	1	5	—	36	3	1,279	249
	1964-66	585	22	1,433	55	496	19	19	1	—	—	81	3	2,614	345
Elementary Particles	1962-63	42	18	156	68	25	11	—	—	2	1	5	2	230	37
	1964-66	107	24	253	56	70	16	1	—	—	—	18	4	449	39
Solid State	1962-63	50	17	181	63	49	17	1	—	—	—	9	3	290	46
	1964-66	157	21	427	57	143	19	6	1	—	—	18	2	751	54
CHEMISTRY	1962-63	539	27	1,138	56	285	14	15	1	3	—	49	2	2,029	396
	1964-66	1,225	33	1,768	47	623	16	24	1	2	—	103	3	3,745	625
Organic	1962-63	213	25	513	61	95	11	5	1	1	—	18	2	845	148
	1964-66	506	33	808	53	173	11	4	—	—	—	41	3	1,532	248
Physical	1962-63	194	31	340	55	61	10	3	1	1	—	17	3	616	93
	1964-66	390	36	462	43	187	18	7	1	—	—	25	2	1,071	154
EARTH SCIENCES	1962-63	43	9	247	50	129	26	5	1	11	2	60	12	495	76
	1964-66	105	11	425	43	285	29	9	1	—	—	157	16	981	104
ENGINEERING	1962-63	117	5	1,201	54	660	30	35	2	16	1	191	8	2,220	352
	1964-66	334	6	2,734	51	1,591	29	118	3	5	—	614	11	5,396	617
Chemical	1962-63	26	6	268	63	72	17	8	2	1	—	52	12	427	56
	1964-66	73	8	523	59	147	17	16	2	—	—	118	14	877	130
Electrical	1962-63	14	3	241	55	148	33	3	1	2	—	34	8	442	78
	1964-66	60	6	576	53	319	29	20	2	—	—	108	10	1,083	126

TABLE 19

(continued)

Field of Doctorate	Year of Doctorate	Doctorate Recipients by Type of Postdoctoral Work Activity: Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
BIOLOGICAL SCIENCES	1962-63	739	22	1,590	47	816	24	48	2	41	1	138	4	3,372	680
	1964-66	1,910	27	2,683	39	1,791	26	123	2	63	1	357	5	6,927	984
AGRICULTURE AND FORESTRY	1962-63	57	8	443	61	144	20	13	2	8	1	59	8	724	211
	1964-66	127	9	776	56	325	23	38	3	2	—	126	9	1,394	271
HEALTH SCIENCES	1962-63	51	15	156	47	78	23	6	2	19	6	23	7	333	74
	1964-66	150	20	294	39	185	24	32	4	41	5	57	8	759	97
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	1962-63	332	36	416	45	135	15	9	1	7	1	23	2	922	124
	1964-66	919	46	665	33	308	15	14	1	11	1	74	4	1,991	221
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1962-63	192	25	383	49	163	21	10	1	7	1	24	3	779	158
	1964-66	474	30	634	40	378	24	30	2	9	—	73	4	1,598	211
ECOLOGY, HYDROBIOLOGY	1962-63	9	11	37	42	38	43	2	2	—	—	2	2	88	15
	1964-66	10	8	38	32	68	56	2	2	—	—	3	2	121	19
BOT, ZOOLOGY, GENERAL BIOLOGY	1962-63	98	19	155	29	258	49	8	2	—	—	7	1	526	98
	1964-66	230	22	276	26	527	49	7	1	—	—	24	2	1,064	165
SOCIAL SCIENCES	1962-63	206	6	882	26	1,446	43	148	5	487	14	186	6	3,355	651
	1964-66	453	7	1,503	22	3,229	48	239	4	929	14	332	5	6,685	662
PSYCHOLOGY	1962-63	150	10	424	29	369	25	49	3	421	28	73	5	1,486	263
	1964-66	356	13	626	22	835	29	55	2	877	31	95	3	2,844	257
ANTHROPOLOGY, ARCHEOLOGY	1962-63	16	10	45	30	78	51	5	3	1	1	7	5	152	27
	1964-66	14	5	60	22	185	69	3	1	1	—	7	3	270	24
SOCIOLOGY	1962-63	9	3	85	26	201	63	8	2	9	3	10	3	322	73
	1964-66	21	3	165	26	415	64	23	4	15	2	8	1	647	51
ECONOMICS AND ECONOMETRICS	1962-63	13	2	233	32	384	52	27	4	26	3	49	7	732	136
	1964-66	28	2	467	30	841	55	52	3	11	1	131	9	1,530	179
POLITICAL SCIENCE AND INT RELATIONS	1962-63	17	4	60	13	289	64	42	9	11	2	36	8	455	112
	1964-66	30	3	114	11	696	69	85	9	6	1	74	7	1,005	123

TABLE 19

(continued)

Field of Doctorate	Year of Doctorate	Doctorate Recipients by Type of Postdoctoral Work Activity: Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
ARTS AND HUMANITIES	1962-63	52	2	105	3	2,422	87	83	3	53	2	76	3	2,791	434
	1964-66	103	2	209	3	5,547	89	166	3	58	1	149	2	6,232	573
HISTORY	1962-63	12	2	37	6	538	84	23	4	7	1	18	3	635	120
	1964-66	37	2	50	3	1,419	88	52	3	10	1	54	3	1,622	157
ENGLISH AND AMERICAN LANG AND LIT	1962-63	8	1	9	1	777	94	16	2	1	—	18	2	829	127
	1964-66	9	—	17	1	1,637	96	29	2	2	—	20	1	1,716	147
MODERN FOREIGN LANG AND LIT	1962-63	9	2	26	6	352	86	7	2	5	1	12	3	411	85
	1964-66	15	1	70	7	983	89	15	1	1	—	21	2	1,105	101
CLASSIC LANG AND LIT	1962-63	7	6	5	5	89	84	2	2	1	1	2	2	106	7
	1964-66	9	4	11	5	188	87	3	1	2	1	4	2	217	20
PHILOSOPHY	1962-63	3	1	11	5	205	87	7	3	6	2	4	2	236	27
	1964-66	11	3	17	4	395	90	4	1	4	1	5	1	436	50
SPEECH AND DRAMATIC ARTS	1962-63	6	2	14	4	255	77	19	6	30	9	9	2	333	31
	1964-66	12	2	25	4	487	78	41	7	34	6	25	3	624	46
FINE ARTS AND MUSIC	1962-63	7	3	4	2	189	85	9	4	3	1	11	5	223	34
	1964-66	9	2	12	3	408	86	20	4	5	1	17	4	471	47
PROFESSIONAL FIELDS	1962-63	10	1	60	7	577	69	56	7	95	12	35	4	833	115
	1964-66	17	1	140	9	1,142	71	116	7	87	5	116	7	1,618	242
BUSINESS ADMINISTRATION	1962-63	3	1	34	9	299	78	28	7	8	2	11	3	383	40
	1964-66	3	—	77	9	614	75	60	7	5	1	63	8	822	79
RELIGION AND THEOLOGY	1962-63	3	1	6	2	195	68	12	4	63	22	10	3	289	43
	1964-66	6	1	9	2	358	74	22	4	67	14	24	5	486	64
EDUCATION	1962-63	20	—	166	5	1,712	50	1,135	33	258	8	130	4	3,421	607
	1964-66	57	1	383	5	3,568	48	2,555	34	626	8	313	4	7,502	599

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 20

Type of Work Activity by Type of First Postdoctoral Employer, FY 1964 - 1966

Type of First Postdoctoral Employer	Type of Postdoctoral Work Activity													
	Fellowship		Research		Teaching		Administration		Professional Services		Other		Total With Known Activity	Activity Unknown
	N	%	N	%	N	%	N	%	N	%	N	%	N (100%)	N
TOTAL KNOWN EMPLOYER	4,814	11	11,627	27	19,210	45	3,345	8	1,736	4	2,294	5	43,026	1,686
COLLEGE AND UNIVERSITY	3,234	12	4,057	15	17,175	65	1,209	5	410	1	472	2	26,557	805
ELEMENTARY AND SECONDARY SCHOOL	6	11	37	2	368	18	1,322	65	257	2	51	2	2,041	41
FEDERAL GOVERNMENT	349	18	1,183	59	38	2	128	6	127	6	172	9	1,997	49
STATE AND LOCAL GOVERNMENT	47	5	192	23	21	2	182	21	329	39	83	10	854	21
NONPROFIT	256	15	712	42	82	5	129	7	359	21	170	10	1,708	52
INDUSTRY	38	1	4,091	79	11	—	134	2	85	2	852	16	5,211	288
OTHER	67	7	383	41	38	4	67	7	119	13	268	28	942	185
FOREIGN	817	22	972	31	1,477	45	174	5	50	1	226	6	3,716	245
EMPLOYER UNKNOWN	102		209		120		36		36		30		533	3,246

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

PROFESSIONAL IDENTIFICATION

It is generally recognized that many students shift majors—and hence professional goals—as they proceed from baccalaureate to doctoral degrees. However, a considerable amount of field shifting occurs also in the transition between doctorate and job. Table 21 shows the percentage of persons whose baccalaureate was in the same field as the doctorate and whose job was in the same field as the doctorate. In all, 60 percent of the 1958 - 1966 doctorate recipients received a baccalaureate in the same field as that of their doctorate, and 77 percent of the 1955 - 1960 doctorate recipients were found in 1962 to be working in the same field as that of their doctorate. The table shows that some fields are much more stable than others in this respect.

A more specific illustration of the flexibility of the education - employment match is shown in Figure 23. The top diagram shows the varied fields of employment of 86 persons from the 1964 National Register of Scientific and Technical Personnel who had received their doctoral degrees in solid state physics. A little more than half (46) were employed as solid state physicists and another 11 in other physics specialties. The remaining one third were employed in the non-physics categories shown.

The bottom diagram illustrates the reverse process. It shows the great range of doctoral fields for 1,894 persons in the National Register who were employed as solid state physicists. The 46 who had a doctorate in solid state represent only 2 percent of the total. Another 1,388 (73 percent) had a doctorate in other physics subfields, and the remaining 25 percent had a doctorate in the many fields listed.

The data in Figure 23 are meant to illustrate a point and should not be overgeneralized. Other fields might have very different characteristics from this relatively new and fast-growing field, and another sample of solid state physicists might show a somewhat different distribution.

TABLE 21

Percentage of Doctorate Recipients Remaining in the Same Field from Baccalaureate to Doctorate and Doctorate to Job

Field	Baccalaureate → Doctorate: Percent with Baccalaureate in Same Field as Doctorate	Doctorate → Job: Percent with Job Field Same as Doctorate Field
MATHEMATICS	70	91
PHYSICS AND ASTRONOMY	75	90
CHEMISTRY	85	84
EARTH SCIENCES	74	93
ENGINEERING	89	92
AGRICULTURE AND FORESTRY	75	73
HEALTH SCIENCES	52	78
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	8	70
ANAT, CYTOL, ENTOMOL, GENET	21	*
ECOLOGY, HYDROBIOLOGY	6	*
BOTANY, ZOOLOGY, GENERAL BIOLOGY	71	51
PSYCHOLOGY	64	90
ANTHROPOLOGY AND ARCHEOLOGY	42	*
SOCIOLOGY	43	79
ECONOMICS AND ECONOMETRICS	51	78
POLITICAL SCIENCE, INT RELAT	51	81
HISTORY	66	85
ENGLISH AND AMERICAN LANG AND LIT	77	*
MODERN FOREIGN LANG AND LIT	59	*
CLASSIC LANG AND LIT	59	*
PHILOSOPHY	58	*
SPEECH AND DRAMATIC ARTS	52	*
FINE ARTS AND MUSIC	72	*
BUSINESS ADMINISTRATION	55	*
RELIGION AND THEOLOGY	19	*
EDUCATION	43	81

*Data not available

Source: NRC, Office of Scientific Personnel, Doctorate Records File and Profiles of PhD's in the Sciences (Publ. 1293) p. 116.

FIGURE 23
AN EXAMPLE OF CHANGES BETWEEN DOCTORATE AND EMPLOYMENT FIELDS.

FIELD OF DOCTORATE	EMPLOYMENT FIELD
	46 IN SOLID STATE PHYSICS
	1 IN ASTRONOMY
	2 IN BIOCHEM, BIOPHYS
86 IN SOLID STATE PHYSICS	14 IN CHEMISTRY
	3 IN ELECTRONICS
	9 IN ENGINEERING
	11 IN PHYSICS (EX. SOLID STATE)
46 IN SOLID STATE PHYSICS	
1 IN BIOPHYSICS	
318 IN CHEMISTRY	
1 IN ELECTRONICS	
109 IN ENGINEERING	1,894 IN SOLID STATE PHYSICS
18 IN GEOL, GEOPHYS, GEOCHEM	
1 IN HORTICULTURE	
7 IN MATHEMATICS	
1,388 IN PHYSICS (EX. SOLID STATE)	
5 IN OTHER FIELDS	

Source: NSF, unpublished data from 1964 National Register of Scientific and Technical Personnel.

GEOGRAPHIC DISTRIBUTION

Some data describing the geographic mobility between baccalaureate and doctoral degrees were presented in Chapter I (see Table 7, p. 40). The data in Table 22 provide a more detailed analysis of the results of the doctoral population migration by showing the varying percentages of doctorate recipients in a given state or geographic region at four career stages: high-school graduation, receipt of baccalaureate, receipt of doctorate, and first job.

The rank order of the nine geographic regions by number of doctorate recipients shows reasonable stability for all four career stages. The Middle Atlantic and East North Central regions lead for each stage, accounting for 35-44 percent of the doctoral students. In contrast, the Mountain and East South Central regions rank last for each career stage, accounting for about 8 percent of the students.

In the high-school-to-baccalaureate transition, the percentages in each region as well as the relative rank orders show only small changes. In the transition from baccalaureate to doctorate, the East North Central and Pacific regions were baccalaureate sources of 27 percent but doctoral sources of 38 percent. Between doctorate and first job, New England and East North Central regions granted 34 percent of the doctorates but hired only 24 percent of the graduates. Appendixes D and E show the state-by-state migration from baccalaureate to doctorate and from doctorate to first job.

In summary, the data in this section show that doctorate recipients from United States universities perform a variety of work activities for different kinds of employers; they shift fields frequently both during and after their doctoral work; and they are geographically mobile. They must be flexible, and perhaps the best doctoral programs should take this need for flexibility into account.

TABLE 22

Geographic Distribution of FY 1964 - 1966 Doctorate Recipients at Various Career Stages (N = 48,491)

State and Region	Doctorate Recipients at Various Career Stages							
	High School		Baccalaureate		Doctorate		Postdoctoral Job	
	N	%	N	%	N	%	N	%
NEW ENGLAND	2,789	5.75	4,148	8.55	4,782	9.86	2,996	6.18
MAINE	171	.35	207	.43	21	.04	95	.20
NEW HAMPSHIRE	232	.48	290	.60	61	.13	119	.25
VERMONT	102	.21	138	.28	24	.05	80	.16
MASSACHUSETTS	1,468	3.03	2,560	5.28	3,259	6.72	1,875	3.87
RHODE ISLAND	184	.38	263	.54	302	.62	160	.33
CONNECTICUT	632	1.30	690	1.42	1,115	2.30	667	1.38
MIDDLE ATLANTIC	9,842	20.30	8,833	18.22	9,402	19.39	7,083	14.61
NEW YORK	5,717	11.79	5,198	10.72	5,646	11.64	3,686	7.60
NEW JERSEY	1,412	2.91	884	1.82	1,168	2.41	1,392	2.87
PENNSYLVANIA	2,713	5.59	2,751	5.67	2,588	5.34	2,005	4.13
EAST NORTH CENTRAL	7,856	16.20	8,494	17.52	11,718	24.17	6,810	14.04
OHIO	1,868	3.85	2,063	4.25	1,899	3.92	1,567	3.23
INDIANA	929	1.92	1,347	2.78	2,274	4.69	974	2.01
ILLINOIS	2,567	5.29	2,379	4.91	3,415	7.04	1,908	3.93
MICHIGAN	1,419	2.93	1,679	3.46	2,540	5.24	1,452	2.99
WISCONSIN	1,073	2.21	1,026	2.12	1,590	3.28	909	1.87
WEST NORTH CENTRAL	4,619	9.53	4,581	9.45	4,235	8.73	2,814	5.80
MINNESOTA	975	2.01	1,064	2.19	1,075	2.22	670	1.38
IOWA	880	1.81	937	1.93	1,293	2.67	526	1.08
MISSOURI	1,028	2.12	983	2.03	859	1.77	717	1.48
NORTH DAKOTA	207	.43	149	.31	98	.20	107	.22
SOUTH DAKOTA	232	.48	203	.42	34	.07	106	.22
NEBRASKA	531	1.10	472	.97	337	.69	247	.51
KANSAS	766	1.58	773	1.59	539	1.11	441	.91
SOUTH ATLANTIC	3,553	7.33	3,720	7.67	4,791	9.88	4,888	10.08
DELAWARE	103	.21	67	.14	143	.29	305	.63
MARYLAND	474	.98	573	1.18	858	1.77	943	1.94
DISTRICT OF COLUMBIA	264	.54	323	.67	834	1.72	840	1.73
VIRGINIA	541	1.12	468	.97	378	.78	572	1.18
WEST VIRGINIA	311	.64	249	.51	94	.19	151	.31
NORTH CAROLINA	582	1.20	722	1.49	1,128	2.33	735	1.52

TABLE 22

(continued)

State and Region	Doctorate Recipients at Various Career Stages							
	High School		Baccalaureate		Doctorate		Postdoctoral Job	
	N	%	N	%	N	%	N	%
SOUTH CAROLINA	255	.53	272	.56	89	.18	230	.47
GEORGIA	474	.98	513	1.06	406	.84	497	1.02
FLORIDA	549	1.13	533	1.10	861	1.78	615	1.27
EAST SOUTH CENTRAL	1,733	3.57	1,727	3.56	1,253	2.58	1,442	2.97
KENTUCKY	468	.97	440	.91	200	.41	336	.69
TENNESSEE	549	1.13	600	1.24	625	1.29	582	1.20
ALABAMA	420	.87	438	.90	263	.54	319	.66
MISSISSIPPI	296	.61	249	.51	165	.34	205	.42
WEST SOUTH CENTRAL	3,208	6.62	3,336	6.88	3,187	6.57	2,591	5.34
ARKANSAS	326	.67	297	.61	179	.37	144	.30
LOUISIANA	458	.94	511	1.05	553	1.14	481	.99
OKLAHOMA	691	1.43	725	1.50	760	1.57	449	.93
TEXAS	1,733	3.57	1,803	3.72	1,695	3.50	1,517	3.13
MOUNTAIN	1,902	3.92	2,145	4.42	2,236	4.61	1,922	3.96
MONTANA	200	.41	161	.33	76	.16	114	.24
IDAHO	237	.49	166	.34	44	.09	117	.24
WYOMING	108	.22	74	.15	115	.24	84	.17
COLORADO	481	.99	641	1.32	996	2.05	624	1.29
NEW MEXICO	148	.31	162	.33	162	.33	334	.69
ARIZONA	173	.36	213	.44	397	.82	311	.64
UTAH	511	1.05	696	1.44	441	.91	277	.57
NEVADA	44	.09	32	.07	5	.01	61	.13
PACIFIC	3,792	7.82	4,414	9.10	6,884	14.20	5,504	11.35
WASHINGTON	657	1.35	686	1.41	883	1.82	656	1.35
OREGON	468	.97	561	1.16	686	1.41	425	.88
CALIFORNIA	2,571	5.30	3,102	6.40	5,242	10.81	4,250	8.76
ALASKA	10	.02	15	.03	10	.02	37	.08
HAWAII	86	.18	50	.10	63	.13	136	.28
PUERTO RICO	75	.15	63	.13	—	—	95	.20
LOCATION UNKNOWN	7,865	16.22	6,554	13.52	—	—	4,092	8.44
FOREIGN	1,257	2.59	476	.98	3	.01	8,254	17.02

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER IV UNITED STATES DOCTORATE RECIPIENTS FROM FOREIGN COUNTRIES

- SOURCE COUNTRIES AND DOCTORAL EDUCATION
- EMPLOYMENT

Approximately one seventh of the persons receiving doctorates from United States universities are of foreign citizenship, and the percentage is growing. Many agencies in the United States and in foreign countries have become increasingly anxious to find out what happens to this pool of highly educated manpower. Do the doctorate recipients return to their homeland and apply their newly acquired skills there, or do they remain in the United States, becoming part of the brain drain?

The Doctorate Records File provides useful information describing the migration of predoctoral students to this country, their education while here, and their subsequent patterns of postdoctoral employment. Specifically, the following data show which foreign countries and foreign institutions were the major sources of students coming to this country. They show to what states the foreign students came, the fields of their doctoral work, the time required to complete the work, and, finally, the postdoctoral migration and employment patterns.

SOURCE COUNTRIES AND DOCTORAL EDUCATION

Table 23 shows the number of students from the various world regions who received doctorates at United States universities between 1920 - 1959 and 1960 - 1966. The table indicates also the summary field of doctorate for the students from each region. Appendix G shows a more detailed tabulation of the field of doctorate, and it lists the countries included in each of the world regions.

The right-hand margin totals show that the number of foreign students receiving doctorates in the United States for the period 1960 - 1966 almost equaled the total for the preceding years, but the distribution by source country changed noticeably between 1920 - 1959 and 1960 - 1966. Before 1960, Canada supplied one third of the foreign doctoral students and was by far the major source country; China ranked second and supplied about one seventh; these two accounted for one half of the foreign doctoral students. Since 1960, Canada and China together have supplied only one fourth of the foreign doctoral students, and India has taken over the lead from both. Countries of the Near East plus Japan and Korea, which in aggregate supplied 11 percent of the pre-1960 total, accounted for 19 percent of the recent total.

TABLE 23

Foreign Countries That Were Sources of Doctorates in United States Universities, by Summary Fields, FY 1960 - 1966

Source Country (Country of Baccalaureate)	Doctorate Recipients by Field: Physical Sciences and Engineering N	%	Biological Sciences N	%	Social Sciences N	%	Arts and Humanities N	%	Professional Fields N	%	Education N	%	Total 1960-66 N	%	1920-59 N	%
CANADA	644	13.4	473	15.7	335	19.2	215	22.2	98	21.3	170	22.4	1,955	16.4	4,107	33.5
MEXICO AND CENTRAL AMERICA	50	1.0	93	3.1	29	1.7	17	1.8	4	0.9	7	0.9	200	1.7	111	0.9
SOUTH AMERICA	134	2.7	79	2.6	37	2.1	22	2.3	4	0.9	6	0.8	282	2.4	174	1.4
NORTHWEST AND CENTRAL EUROPE	581	11.7	260	8.6	264	15.1	233	24.1	70	15.2	51	6.7	1,459	12.3	1,628	13.3
SOUTHERN EUROPE	186	3.8	85	2.8	67	3.8	117	12.1	28	6.1	10	1.3	493	4.1	515	4.2
EASTERN EUROPE	117	2.4	51	1.7	49	2.8	64	6.6	11	2.4	8	1.1	300	2.5	364	3.0
AFRICA (EXCEPT EGYPT)	56	1.1	81	2.7	26	1.5	9	0.9	5	1.1	23	3.0	200	1.7	155	1.3
NEAR EAST	578	11.7	385	12.8	241	13.8	70	7.2	87	18.9	131	17.3	1,492	12.6	1,015	8.3
INDIA	1,054	21.3	742	24.7	267	15.3	66	6.8	49	10.6	101	13.3	2,279	19.2	1,222	10.0
PAKISTAN	56	1.1	104	3.4	61	3.5	9	0.9	6	1.3	38	5.0	274	2.3	158	1.3
CHINA (NATIONALIST)	805	16.3	216	7.2	96	5.5	32	3.3	13	2.8	29	3.8	1,191	10.0	1,793	14.6
JAPAN	214	4.3	78	2.6	54	3.1	37	3.8	16	3.5	19	2.5	418	3.5	210	1.7
KOREA	159	3.2	61	2.0	53	3.0	7	0.7	18	3.9	10	1.3	308	2.6	69	0.6
OTHER SOUTHEAST ASIA	97	2.0	92	3.1	61	3.5	14	1.5	8	1.7	35	4.6	307	2.6	146	1.2
AUSTRALIA AND NEW ZEALAND	119	2.4	120	4.0	58	3.3	25	2.6	19	4.1	40	5.3	381	3.2	296	2.4
PHILIPPINES	75	1.5	90	3.0	47	2.7	30	3.1	24	5.2	80	10.6	346	2.9	296	2.4
TOTAL FOREIGN COUNTRIES	4,945	99.9	3,010	100.0	1,745	99.9	967	99.9	460	99.9	758	99.9	11,885	100.0	12,259	100.1
		41.6		25.3		14.7		8.1		3.9		6.4		100.0		
TOTAL UNITED STATES	25,699	31.7	12,465	15.4	13,126	16.2	12,006	14.8	3,084	3.8	14,598	18.0	80,978	99.9	136,109	

Source: NSF, Office of Scientific Personnel, Doctorate Records File.

TABLE 24

Foreign Institutions That Were Leading Baccalaureate Sources of Doctorates in United States Universities, by Summary Fields, FY 1960 - 1966

Leading Foreign Baccalaureate Institutions (ranked as sources of doctorates 1960 - 1966)	Doctorate Recipients by Field						
	Physical Sciences and Engineering	Biological Sciences	Social Sciences	Arts and Humanities	Professional Fields	Education	Total
NATIONAL TAIWAN UNIVERSITY, CHINA	491	120	45	15	4	5	680
CAIRO UNIVERSITY, EGYPT	101	115	48	12	32	34	342
TORONTO, UNIVERSITY OF CANADA	139	34	62	58	14	15	322
BRITISH COLUMBIA, UNIVERSITY OF, CANADA	74	87	51	25	16	35	288
BOMBAY, UNIVERSITY OF, INDIA	127	62	20	6	5	7	227
ALBERTA, UNIVERSITY OF, CANADA	89	53	23	10	10	37	222
MADRAS, UNIVERSITY OF, INDIA	113	69	16	4	2	11	215
PHILIPPINES, UNIVERSITY OF THE	39	70	31	15	16	34	205
McGILL UNIVERSITY, CANADA	73	48	46	17	8	8	200
PUNJAB, UNIVERSITY OF, INDIA	73	71	32	7	3	11	197
SEOUL NATIONAL UNIVERSITY, KOREA	113	40	23	1	6	5	188
CALCUTTA UNIVERSITY, INDIA	88	54	30	7	—	6	185
HEBREW UNIVERSITY, THE, ISRAEL	40	40	49	21	8	7	165
LONDON, UNIVERSITY OF, ENGLAND	64	19	40	18	10	13	164
AMERICAN UNIVERSITY OF BEIRUT, LEBANON	52	46	30	9	4	11	152
AGRA UNIVERSITY, INDIA	35	84	17	1	4	6	147
MANITOBA, UNIVERSITY OF, CANADA	45	49	23	10	5	8	140
PUNJAB, UNIVERSITY OF, PAKISTAN	28	44	29	4	4	27	136
ALEXANDRIA UNIVERSITY, EGYPT	49	47	21	2	8	5	132
MYSORE, UNIVERSITY OF, INDIA	83	18	6	5	1	5	118
DELHI, UNIVERSITY OF, INDIA	63	20	17	3	11	4	118

TABLE 24

(continued)

Leading Foreign Baccalaureate Institutions (ranked as sources of doctorates 1960 - 1966)	Doctorate Recipients by Field						
	Physical Sciences and Engineering	Biological Sciences	Social Sciences	Arts and Humanities	Professional Fields	Education	Total
SASKATCHEWAN, UNIVERSITY OF, CANADA	39	36	12	8	5	12	112
ISRAEL INSTITUTE OF TECHNOLOGY	106	3	—	—	3	—	112
TEHERAN, UNIVERSITY OF, IRAN	48	20	23	5	2	13	111
ANDHRA UNIVERSITY, INDIA	62	28	15	4	—	—	109
CAMBRIDGE UNIVERSITY, ENGLAND	43	13	23	23	5	—	107
QUEEN'S UNIVERSITY, CANADA	55	12	14	9	4	6	100

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The bottom horizontal rows of Table 23 compare the field of doctorate of foreign and United States students. The foreign students are concentrated more heavily in the natural sciences (67 percent compared with 47 percent for United States students), and the foreign students are less well represented in arts and humanities and education (14 percent of the foreign to 33 percent of the United States students). The concentration in natural sciences is particularly evident with the Indian and Chinese students who have 79 percent and 85 percent, respectively, in these fields.

Table 24 lists the names of 27 foreign universities, each of which was a baccalaureate source of one hundred or more persons who later came to the United States for doctoral work. The institution names appear in rank order, based on the total number of persons from each who received doctorates between FY 1960 - 1966.

In all, 11,855 foreign citizens from 951 foreign institutions received doctorates at United States universities during FY 1960 - 1966. The 27 listed institutions (3 percent of the total) were sources of 5,194 doctorate recipients (44 percent of the total foreign doctorate recipients). This concentration is emphasized further by noting that 15 of the 27 universities are Canadian or Indian.

Personal characteristics of the foreign doctorate recipients do not differ to any great extent from those of their United States counterparts. During the period FY 1964 - 1966, 89 percent of the native United States doctorate recipients were male, 78 percent were married, and the median age at doctorate was 31. Corresponding figures for the foreign group are: 91 percent male, 64 percent married, and median age at doctorate 32.

After arriving as students in the United States, the foreign doctorate recipients distributed themselves regionally in a pattern very similar to that of the United States students, as shown by the following comparison:

U.S. Region of Doctoral Institution	Percentage of 1958-66 Doctorates	
	Native U.S.	Foreign
New England	10.0	11.4
Middle Atlantic	20.8	19.3
East North Central	24.9	28.9
West North Central	9.0	9.0
South Atlantic	9.5	8.4
East South Central	2.6	0.9
West South Central	6.1	4.5
Mountain	4.1	2.5
Pacific	13.0	15.1
Totals	100.0	100.0

Appendix D contains a more detailed state-by-state distribution of foreign doctoral students.

TABLE 25

Time Lapse from Graduate School Entry to Doctorate, by Citizenship and Summary Fields, FY 1964 - 1966

Field by Doctorate	Citizenship		Median Years from Graduate School Entry to Doctorate
TOTAL ALL FIELDS	U.S.	Total Time	7.2 yrs
		Registered Time	5.5
	Non U.S.	Total Time	6.4
		Registered Time	5.1
PHYSICAL SCIENCES AND ENGINEERING	U.S.	Total Time	5.8
		Registered Time	5.1
	Non U.S.	Total Time	5.9
		Registered Time	5.0
BIOLOGICAL SCIENCES	U.S.	Total Time	6.3
		Registered Time	5.3
	Non U.S.	Total Time	6.3
		Registered Time	5.1
SOCIAL SCIENCES	U.S.	Total Time	7.0
		Registered Time	5.3
	Non U.S.	Total Time	7.0
		Registered Time	5.1
ARTS AND HUMANITIES	U.S.	Total Time	8.4
		Registered Time	5.7
	Non U.S.	Total Time	7.5
		Registered Time	5.1
PROFESSIONAL FIELDS	U.S.	Total Time	9.2
		Registered Time	6.1
	Non U.S.	Total Time	7.6
		Registered Time	5.3
EDUCATION	U.S.	Total Time	11.8
		Registered Time	6.9
	Non U.S.	Total Time	9.1
		Registered Time	5.2

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Once established in graduate school, the foreign student progressed rapidly through his doctoral program. Information from a previous section (Figure 20 and Table 16, pp. 73-76) showed that even though the total time elapsed from baccalaureate to doctorate was a little longer for foreign students, the registered time was about equal to that of United States students. This suggests that the foreign student might take more time from baccalaureate to entering graduate school, but that once started he proceeded at a good pace. Table 25 data confirm this pattern. The table compares foreign and United States students for the time elapsed (total and registered) from beginning of graduate school until receipt of doctorate.

In the science fields—both natural and social—the United States and the foreign students' time lapse were about equal for both total time and registered time. In the nonscience fields, the foreign students completed their doctoral work faster than the United States students, whether measured by total or registered time.

The preceding data of this section have indicated the time lapses and the geographic and institutional sources of foreign students who came to the United States for graduate work and achieved the doctorate. The following section deals with the immediate postdoctoral migrations and work activities of the foreign students.

EMPLOYMENT

As a preliminary to discussing postdoctoral employment patterns of United States doctorate recipients from foreign countries, it is of interest to investigate their employment status the year preceding receipt of the doctorate. Table 26 compares the predoctoral employment of the United States and the foreign students, equated for summary field.

Foreign students have higher percentages in all areas except Full-Time Employed. Having less full-time employment, receiving more fellowships (in all fields but natural sciences), and having more part-time employment (which includes assistantships), the foreign students are apparently better able to be on campus and devote more time to doctoral work than the United States students.

Postdoctoral migration of the United States doctorate recipients from foreign countries is described in Tables 27 and 28 and in Figure 24. This migration has been of critical concern during recent years because foreign students who do not return to their home countries after receipt of the doctorate form one important part of the brain drain.

The data reported in Tables 27 and 28 and in Figure 24 (p. 104) are based on the reports of all United States doctorate recipients of foreign citizenship who indicated the geographic location of their first postdoctoral job.[8] Do some of these reports indicate hopes or vague plans rather than realities? In order to check this possibility, an additional analysis of the data was made. From the foreign doctorate recipients of 1964 - 1966, a group was selected who had indicated in the questionnaire that they had "signed a contract or made a definite commitment." Members of this group were not simply seeking employment or negotiating but were contracted to a specific employer. Presumably they were certain of their country of postdoctoral employment. The responses of this group were compared with the responses of the 1964 - 1966 total foreign citizenship group listed in the right-hand column of Table 27. The two sets of percentages agreed very well. For example, 39 percent of the Canadians said they were remaining in the United States compared with 40 percent reported in Table 27; 93 percent of the Chinese said they were remaining compared with 90 percent from Table 27; and 55 percent of the total said they were remaining

8. The data from this part of the Survey questionnaire have the lowest response rate (about 80 percent) of any reported in this book. The percentages listed in the tables are calculated on the basis of known cases. To the extent that the postdoctoral plans of the nonrespondents (20 percent of the total) differ from the known cases, the patterns reported would be in error.

TABLE 26

Predoctoral Employment Status by Citizenship and Summary Fields, FY 1964 - 1966

Field of Doctorate	Citizenship	Percentage of Doctorate Recipients by Predoctoral Employment Status									
					Full-Time Employed						
		Part-Time Employ*	No Employ	Fellowship	College or University	Elementary or Sec School	Other	Working on Research Grant	Other	Status Unknown	Total
TOTAL ALL FIELDS	U.S.	25	5	18	29	5	9	7	1	1	100
	Non U.S.	39	7	20	15	1	4	11	1	2	100
PHYSICAL SCIENCES AND ENGINEERING	U.S.	33	4	24	14	—	10	13	1	1	100
	Non U.S.	47	5	17	10	—	4	16	—	1	100
BIOLOGICAL SCIENCES	U.S.	30	4	32	16	—	7	9	1	1	100
	Non U.S.	42	7	27	7	—	4	10	1	2	100
SOCIAL SCIENCES	U.S.	20	4	18	33	1	15	5	2	2	100
	Non U.S.	31	7	19	26	—	7	5	1	4	100
ARTS AND HUMANITIES	U.S.	17	7	10	56	2	3	2	2	1	100
	Non U.S.	20	7	18	44	1	3	2	1	4	100
PROFESSIONAL FIELDS	U.S.	17	6	12	48	—	12	2	1	1	100
	Non U.S.	25	12	24	26	—	7	1	—	5	100
EDUCATION	U.S.	19	4	5	35	25	8	2	1	1	100
	Non U.S.	28	18	15	21	7	4	3	1	3	100

*Includes research and teaching assistantships.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

in the United States compared with 51 percent reported in Table 27. The data appear to be reliable.

Table 27 shows trends for three 3-year periods in the percentage of United States doctorate recipients of foreign citizenship who intend to remain in the United States for postdoctoral employment. The total number intending to remain almost tripled between FY 1958 - 1960 and FY 1964 - 1966, and the corresponding percentages increased from 46 to 51 percent. Canada, India, Africa (excluding Egypt), Korea, the Philippines, and Australia show definitely increasing percentages of the foreign doctorate recipients intending to remain. Pakistan and Japan show marked decreases, and the remaining regions reveal either no changes or erratic changes.

Within a given time period—1964 - 1966, for instance—there are large regional variations of the percentages intending to remain. For example, 90 percent of the Nationalist Chinese intend to remain as contrasted with 14 percent of the Paskistani doctorate recipients.

TABLE 27

Trends in Percentages of Doctorate Recipients of Foreign Citizenship Intending to Remain in the United States for First Postdoctoral Employment, FY 1958 - 1966

	Doctorate Recipients Remaining in the U.S.					
	1958-1960		1961-1963		1964-1966	
Country of Baccalaureate Institution	N	%	N	%	N	%
TOTAL FOREIGN CITIZENS	1,066	46	1,770	48	2,724	51
CANADA	157	34	226	39	326	40
MEXICO AND CENTRAL AMERICA	4	17	10	22	17	20
SOUTH AMERICA	17	40	15	19	44	33
NORTHWESTERN EUROPE	138	63	187	51	301	55
SOUTHERN EUROPE	52	55	53	54	88	54
EASTERN EUROPE	22	69	43	80	29	59
AFRICA (EXCEPT EGYPT)	4	11	8	15	21	20
NEAR EAST	62	32	132	36	227	34
INDIA	118	35	295	47	498	58
PAKISTAN	7	19	12	18	16	14
CHINA (NATIONALIST)	154	90	239	91	395	90
JAPAN	53	53	73	50	73	48
KOREA	17	38	44	57	79	78
OTHER SOUTHEAST ASIA	4	8	19	21	24	17
AUSTRALIA AND NEW ZEALAND	18	26	40	31	64	36
PHILIPPINES	6	8	20	18	36	31
UNITED STATES	233	69	354	73	486	73

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 28

World Region of First Postdoctoral Employment of United States Doctorate Recipients of Foreign Citizenship by Country of Baccalaureate Institution, FY 1964 - 1966

Country of Baccalaureate Institution		Doctorate Recipients by Region of Postdoctoral Employment												
		UNITED STATES	NORTH AND CENTRAL AMERICA	SOUTH AMERICA	NORTHERN EUROPE	CENTRAL EUROPE	WESTERN EUROPE	EASTERN EUROPE	AFRICA	WESTERN ASIA	EASTERN ASIA	AUSTRALASIA	TOTAL	REGION UNKNOWN
TOTAL FOREIGN CITIZENS	N	2,724	693	115	136	51	74	24	379	648	253	242	5,339	1,407
	%	51	13	2	3	1	1	—	7	12	5	5	100	
CANADA	N	326	456	—	18	2	8	—	4	3	2	4	823	94
	%	40	56	—	2	—	1	—	—	—	—	—	99	
MEXICO AND CENTRAL AMERICA	N	17	64	1	1	—	—	—	—	1	—	—	84	13
	%	20	76	1	1	—	—	—	—	1	—	—	99	
SOUTH AMERICA	N	44	3	84	1	—	—	—	—	—	—	—	132	24
	%	33	2	64	1	—	—	—	—	—	—	—	100	
NORTHWESTERN EUROPE	N	301	53	4	92	29	26	1	13	11	8	8	546	84
	%	55	10	1	17	5	5	—	2	2	1	1	99	
UNITED KINGDOM	N	175	35	—	70	1	1	1	12	8	5	4	312	40
	%	56	11	—	23	—	—	—	4	3	2	1	100	
GERMANY	N	46	6	1	1	23	2	—	—	—	3	1	83	18
	%	55	7	1	1	28	2	—	—	—	4	1	99	
SOUTHERN EUROPE	N	88	4	7	1	9	28	11	4	3	6	1	162	43
	%	54	2	4	1	6	17	7	2	2	4	1	100	
FRANCE	N	25	1	1	—	—	19	—	3	2	3	—	54	9
	%	46	2	2	—	—	35	—	6	4	6	—	101	
ITALY	N	11	1	—	1	8	2	—	—	1	1	1	26	5
	%	42	4	—	4	31	8	—	—	4	4	4	101	
GREECE	N	38	1	—	—	1	—	11	—	—	—	—	51	20
	%	75	2	—	—	2	—	21	—	—	—	—	100	
EASTERN EUROPE	N	29	3	—	2	1	1	11	—	2	—	—	49	12
	%	59	6	—	4	2	2	22	—	4	—	—	99	
AFRICA (EXCEPT EGYPT)	N	21	3	—	1	—	2	—	79	—	—	—	106	7
	%	20	3	—	1	—	2	—	75	—	—	—	101	
NEAR EAST	N	227	8	1	1	3	1	—	245	176	—	—	662	185
	%	34	1	—	—	1	—	—	37	27	—	—	100	
EGYPT	N	67	2	—	—	2	—	—	243	10	—	—	324	68
	%	21	1	—	—	1	—	—	75	3	—	—	101	
ISRAEL	N	65	2	1	1	—	—	—	—	47	—	—	116	35
	%	56	2	1	1	—	—	—	—	40	—	—	100	

TABLE 28

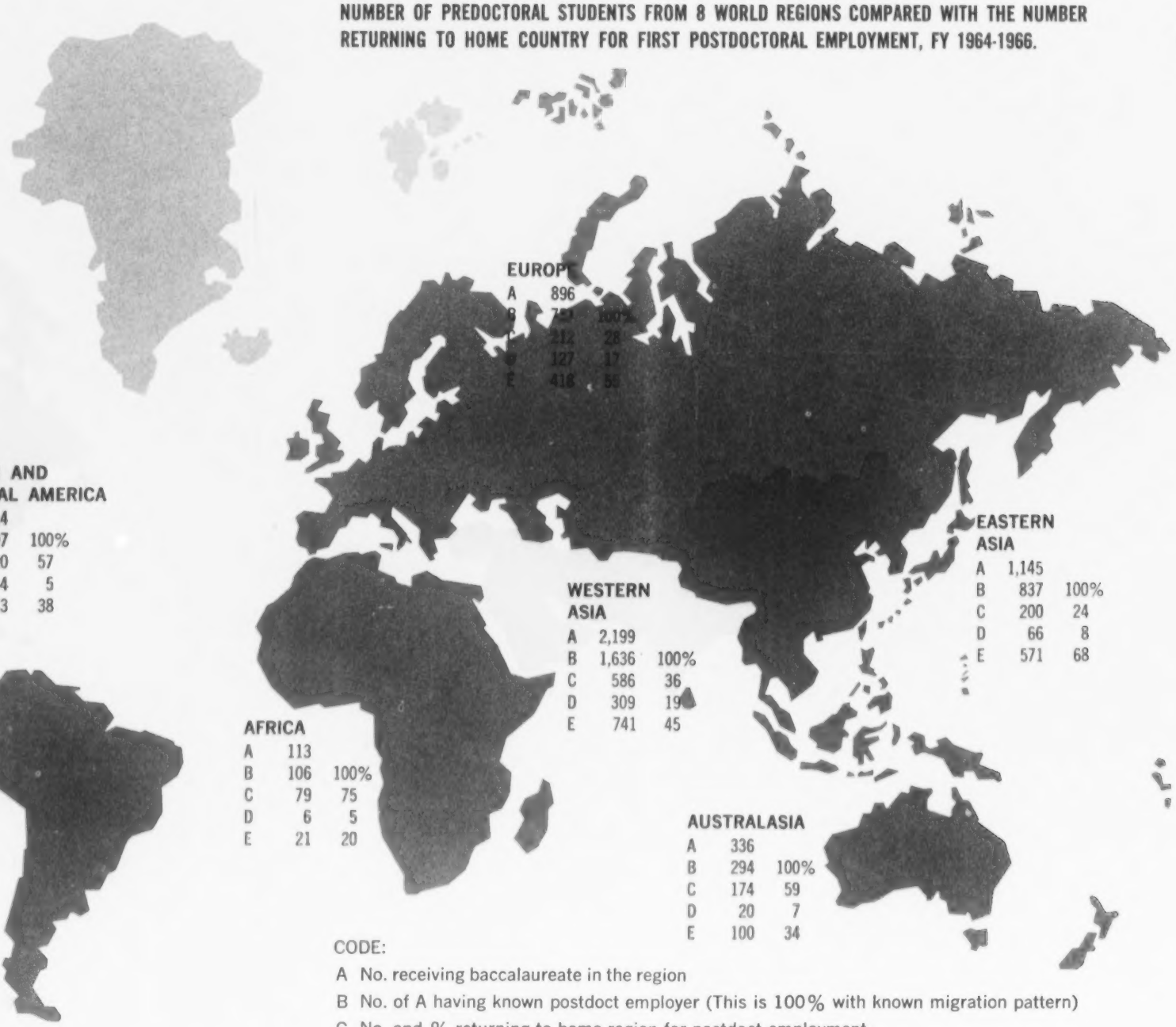
(continued)

Country of Baccalaureate Institution		Doctorate Recipients by Region of Postdoctoral Employment												
		UNITED STATES	NORTH AND CENTRAL AMERICA	SOUTH AMERICA	NORTHERN EUROPE	CENTRAL EUROPE	WESTERN EUROPE	EASTERN EUROPE	AFRICA	WESTERN ASIA	EASTERN ASIA	AUSTRALASIA	TOTAL	REGION UNKNOWN
TURKEY	N	20	1	—	—	—	—	—	1	17	—	—	39	20
	%	51	3	—	—	—	—	—	3	44	—	—	101	
INDIA	N	498	27	—	5	1	1	—	4	317	5	3	861	340
	%	58	3	—	1	—	—	—	—	37	1	—	100	
PAKISTAN	N	16	2	—	—	—	—	—	1	93	1	—	113	38
	%	14	2	—	—	—	—	—	1	82	1	—	100	
CHINA (NATIONALIST)	N	395	9	—	—	1	—	—	—	—	35	—	440	189
	%	90	2	—	—	—	—	—	—	—	8	—	100	
JAPAN	N	73	4	—	2	—	—	—	—	—	74	—	153	34
	%	48	3	—	1	—	—	—	—	—	48	—	100	
KOREA	N	79	3	—	—	—	1	—	—	—	18	—	101	63
	%	78	3	—	—	—	1	—	—	—	18	—	100	
OTHER SOUTHEAST ASIA	N	24	1	—	—	—	—	—	—	—	73	45	143	22
	%	17	1	—	—	—	—	—	—	—	51	31	100	
AUSTRALIA AND NEW ZEALAND	N	64	8	1	3	—	—	—	1	3	1	97	178	15
	%	36	5	—	2	—	—	—	—	2	—	55	100	
PHILIPPINES	N	36	1	—	—	—	—	—	—	—	2	77	116	27
	%	31	1	—	—	—	—	—	—	—	2	66	100	
UNITED STATES	N	486	44	17	9	5	6	1	28	39	28	7	670	217
	%	73	7	3	1	1	1	—	4	6	4	1	101	

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Figure 24 and the associated Table 28 show the regional migrations that occurred between baccalaureate and first postdoctoral job for the 6,746 persons of foreign citizenship who received doctorates in United States universities between FY 1964 - 1966. The table has more detailed data, and the figure summarizes the information for eight world regions. Of the 6,746 foreign citizens, 887 had received baccalaureates at United States universities. Data showing the percentage of these 887 who returned to some foreign country and the percentage who remained in the United States for the first job, are displayed next to the United States. Data for the rest are listed on the map in the world region of baccalaureate. For example, 896 of the doctorate recipients had taken baccalaureate degrees in European countries. Of these, 757 had indicated on the Survey of Earned Doctorates questionnaire where they were going to work on their first postdoctoral job—28 percent (212 of 757) were returning to Europe;

FIGURE 24
NUMBER OF PREDOCTORAL STUDENTS FROM 8 WORLD REGIONS COMPARED WITH THE NUMBER RETURNING TO HOME COUNTRY FOR FIRST POSTDOCTORAL EMPLOYMENT, FY 1964-1966.



FOREIGN CITIZENS WHO RECEIVED BACC. AT U.S. INSTITUTIONS

A	887	
B	670	100%
C, D	184	27
E	486	73

NORTH AND CENTRAL AMERICA

A	1,014	
B	907	100%
C	520	57
D	44	5
E	343	38

SOUTH AMERICA

A	156	
B	132	100%
C	84	64
D	4	3
E	44	33

TOTAL: ALL FOREIGN CITIZENS

A	6,746	
B	5,339	100%
C, D	2,615	49
E	2,724	51

(24% of E were on postdoctoral fellowships)

CODE:

A No. receiving baccalaureate in the region
B No. of A having known postdoct employer (This is 100% with known migration pattern)
C No. and % returning to home region for postdoct employment
D No. and % to some other foreign region for postdoct employment
E No. and % remaining in U.S. for postdoct employment

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

17 percent were leaving the United States but for a non-European country; and the remaining 55 percent intended to stay in the United States for the first postdoctoral position.

Of all the foreign citizens, one half remained in the United States and the other half returned to their own or some other foreign country. But it should be noted that 24 percent of those who remained were on postdoctoral fellowships and so were continuing their education.

Students of Africa, the Americas, and Australasia have the highest "return home" rates; Eastern Asians and the foreign students who received baccalaureates in the United States have the lowest return rates. Table 28 provides more detailed migration data.

It should be remembered that these data refer to the intended first postdoctoral job, and the above patterns may or may not correspond well to the distribution of the foreign doctoral students five or more years later. The data do show, however, that the foreign students from most regions are in no great hurry to leave the United States.

Table 29 shows the intended postdoctoral work activity of the 6,746 foreign students distributed by world region of employment.

Three fourths of the group reported research or teaching as their major work activity, and postdoctoral fellowships accounted for most of the remainder. Higher percentages of the foreign doctorate recipients enter research and postdoctoral fellowships than their United States counterparts; lower percentages enter teaching and administration. Most of the fellowships for the foreign students were granted to those remaining in the United States.

The proportion of the foreign doctorate recipients entering research as opposed to teaching reveals large variations depending on the geographic region to which they return. Those returning to Europe and South America and those remaining in the United States are more heavily engaged in research; those returning to other foreign countries have larger numbers entering teaching.

In summary, the preceding data show the following patterns characteristic of foreign students who receive doctorates at United States universities:

- The number of foreign students coming to the United States for doctoral education is growing rapidly. They form an increasing percentage of the total United States doctorate recipients.
- The "source countries" have changed in recent years—India, the Near East, Japan, and Korea showing strong gains. A relatively small percentage of foreign institutions furnishes most of the students who come to the United States.
- Foreign students who receive the doctorate concentrated heavily in the natural sciences, and they completed their doctoral work as fast as, or faster than, the United States students.
- Increasing percentages intend to remain in the United States for their first job, the recent totals approaching one half.
- In their first postdoctoral work activities, the foreign doctorate recipients are primarily engaged in teaching (38 percent), research (37 percent), and postdoctoral fellowship research (15 percent).

TABLE 29

Type of First Postdoctoral Work Activity of Doctorate Recipients of Foreign Citizenship, FY 1964 - 1966

World Region of Postdoctoral Employment	Doctorate Recipients by Postdoctoral Work Activity													
	Fellowship		Research		Teaching		Administration		Professional Services		Other		Total	Activity Unknown
	N	%	N	%	N	%	N	%	N	%	N	%	N (100%)	N
TOTAL FOREIGN CITIZENS	889	15	2,185	37	2,254	38	160	3	83	1	329	6	5,900	846
UNITED STATES	631	24	1,037	39	845	31	18	1	35	1	115	4	2,681	43
NORTH AND CENTRAL AMERICA	43	6	207	31	332	50	33	5	10	1	45	7	670	23
SOUTH AMERICA	1	1	55	49	44	39	2	2	1	1	9	8	112	3
NORTHERN EUROPE	38	29	49	37	31	24	2	1	1	1	10	8	131	5
CENTRAL EUROPE	12	25	25	51	8	16	—	—	—	—	4	8	49	2
WESTERN EUROPE	14	20	31	44	13	18	2	3	3	4	8	11	71	3
EASTERN EUROPE	—	—	12	57	3	14	1	5	—	—	5	24	21	3
AFRICA	10	3	124	36	170	49	15	4	1	—	29	8	349	30
WESTERN ASIA	11	2	169	29	301	52	47	8	9	2	43	7	580	68
EASTERN ASIA	3	1	66	29	132	57	14	6	5	2	12	5	232	21
AUSTRALASIA	5	2	63	27	124	54	17	7	8	3	15	7	232	10
REGION UNKNOWN	121	16	347	45	251	33	9	1	10	1	34	4	772	635

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER V WOMEN DOCTORATE RECIPIENTS

- EDUCATION
- EMPLOYMENT

EDUCATION

Women receive 40 percent of the baccalaureate degrees granted in the United States, and the percentage is increasing. They receive 32 percent of the master's degrees, but this proportion has remained constant for many years. The percentage of women among United States doctorate recipients dropped from 15 to 9 percent between 1920 and 1950, but a gradual increase restored the value to 11 percent by 1960.[9] Since 1960, the proportion of women among all doctorate recipients has remained constant, not only for the total, but for each summary field (see Table 30). Academic fields vary greatly in ability to attract women. Only 10 percent of the women received doctorates in the physical sciences, and women accounted for a mere 3 percent of all physical science doctorate recipients. In contrast, 29 percent and 23 percent received degrees in education and the arts and humanities, and they comprised almost one fifth of the doctorate recipients in these fields. Figure 25 shows the distribution of women and men among the various fields.

These data indicate that the efforts since World War II to interest larger percentages of able women in continuing their education to the doctorate, and especially to consider careers in the physical sciences, have had little effect. However, it should be noted that the total number of women doctorate recipients has been increasing. In 1950, 613 women received the doctorate. From 1960 to 1966, the period in which the percentage of women receiving the doctorate remained unchanged (11 percent of the total), the number doubled—from 1,042 to 2,073.

A comparison of the geographic distribution of women and men doctorate recipients at the times of their receiving the baccalaureate and the doctorate is shown in Figure 26 (p. 110). Considering the large amount of migration that occurs at various career stages (Table 22, p. 92), the distributions show remarkable correspondences between the percentages of men and women in a given region at a given educational level. The Middle Atlantic region does have a somewhat higher proportion of women than men at both baccalaureate and doctoral levels, and the West North Central and Mountain regions have slightly lower percentages of women, but these are relatively small deviations from the over-all pattern of approximately equal distributions.

9. NAS-NRC, Publ. 1142, op. cit., pp. 47-53.

TABLE 30

Women Doctorate Recipients by Field, FY 1958 - 1966

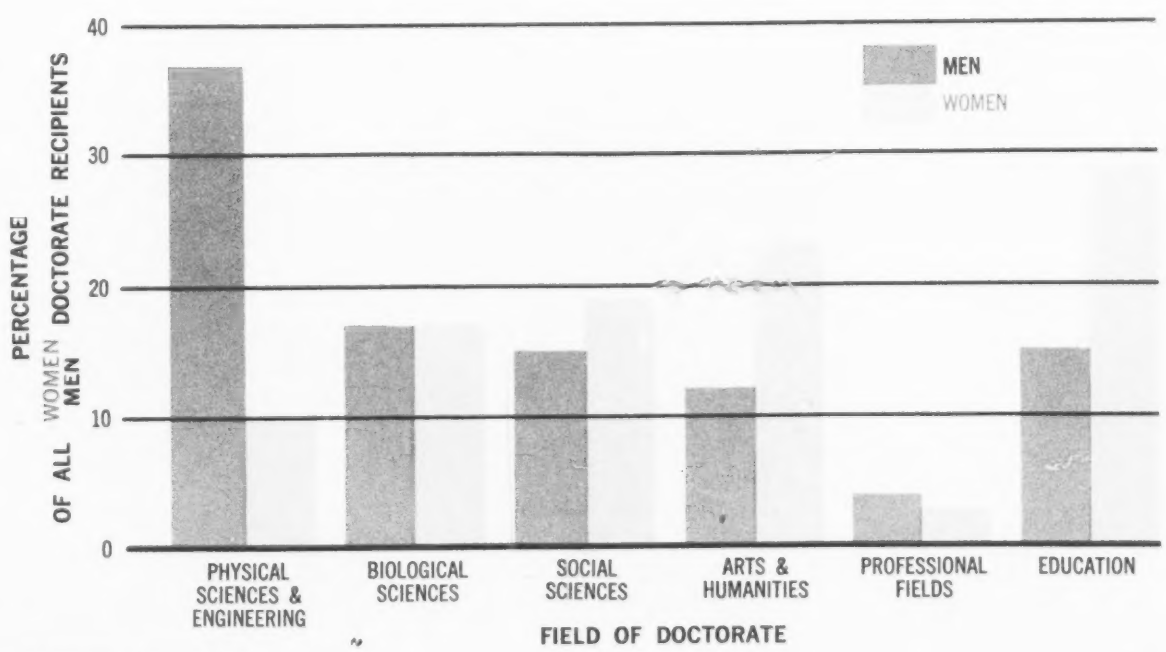
Field of Doctorate	Women Doctorate Recipients 1958-1960 N	%	1961-1963 N	%	1964-1966 N	%
TOTAL ALL FIELDS	3,009	100.0	3,754	100.0	5,387	100.0
PHYSICAL SCIENCES AND ENGINEERING	224	7.4	325	8.7	518	9.6
MATHEMATICS	42	1.4	67	1.8	131	2.4
PHYSICS AND ASTRONOMY	29	1.0	31	0.8	64	1.2
Elementary Particles	2	—	6	—	5	—
Solid State	6	—	4	—	16	—
CHEMISTRY	134	4.4	198	5.3	281	5.2
Organic	51	—	73	—	108	—
Physical	32	—	54	—	88	—
EARTH SCIENCES	11	0.3	11	0.3	18	0.3
ENGINEERING	8	0.3	18	0.5	24	0.5
Chemical	1	—	4	—	4	—
Electrical	2	—	2	—	6	—
BIOLOGICAL SCIENCES	459	15.3	562	15.0	860	16.0
AGRICULTURE AND FORESTRY	22	0.8	15	0.4	28	0.5
HEALTH SCIENCES	42	1.4	37	1.0	77	1.4
BIOCHEM, BIOPHYS, PHYSIOLOGY, BIOSTATISTICS	145	4.8	202	5.4	328	6.1
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	124	4.1	189	5.0	255	4.8
ECOLOGY, HYDROBIOLOGY	8	0.3	5	0.2	6	0.1
BOTANY, ZOOLOGY, GENERAL BIOLOGY	118	3.9	114	3.0	166	3.1
SOCIAL SCIENCES	670	22.3	795	21.2	1,044	19.4
PSYCHOLOGY	413	13.7	481	12.8	633	11.7
ANTHROPOLOGY, ARCHEOLOGY	53	1.8	45	1.2	57	1.1
SOCIOLOGY	75	2.5	97	2.6	105	1.9
ECONOMICS, ECONOMETRICS	33	1.1	56	1.5	69	1.3
POLITICAL SCIENCE, INT RELATIONS	50	1.7	55	1.5	99	1.8

TABLE 30
(continued)

Field of Doctorate	Women Doctorate Recipients 1958-1960 N	%	1961-1963 N	%	1964-1966 N	%
ARTS AND HUMANITIES	640	21.3	802	21.3	1,233	22.9
HISTORY	115	3.8	113	3.0	186	3.5
ENGLISH AND AMERICAN LANG AND LIT	189	6.3	282	7.5	401	7.4
MODERN FOREIGN LANG AND LIT	166	5.5	183	4.9	358	6.6
CLASSIC LANG AND LIT	14	4.7	25	0.7	39	0.7
PHILOSOPHY	37	1.2	48	1.3	51	0.9
SPEECH AND DRAMATIC ARTS	56	1.9	75	2.0	92	1.7
FINE ARTS AND MUSIC	61	2.0	71	1.9	95	1.8
PROFESSIONAL FIELDS	107	3.5	150	4.0	180	3.3
BUSINESS ADMINISTRATION	13	0.4	10	0.3	22	0.4
RELIGION AND THEOLOGY	27	0.9	31	0.8	24.	0.4
EDUCATION	909	30.2	1,120	29.8	1,552	28.8

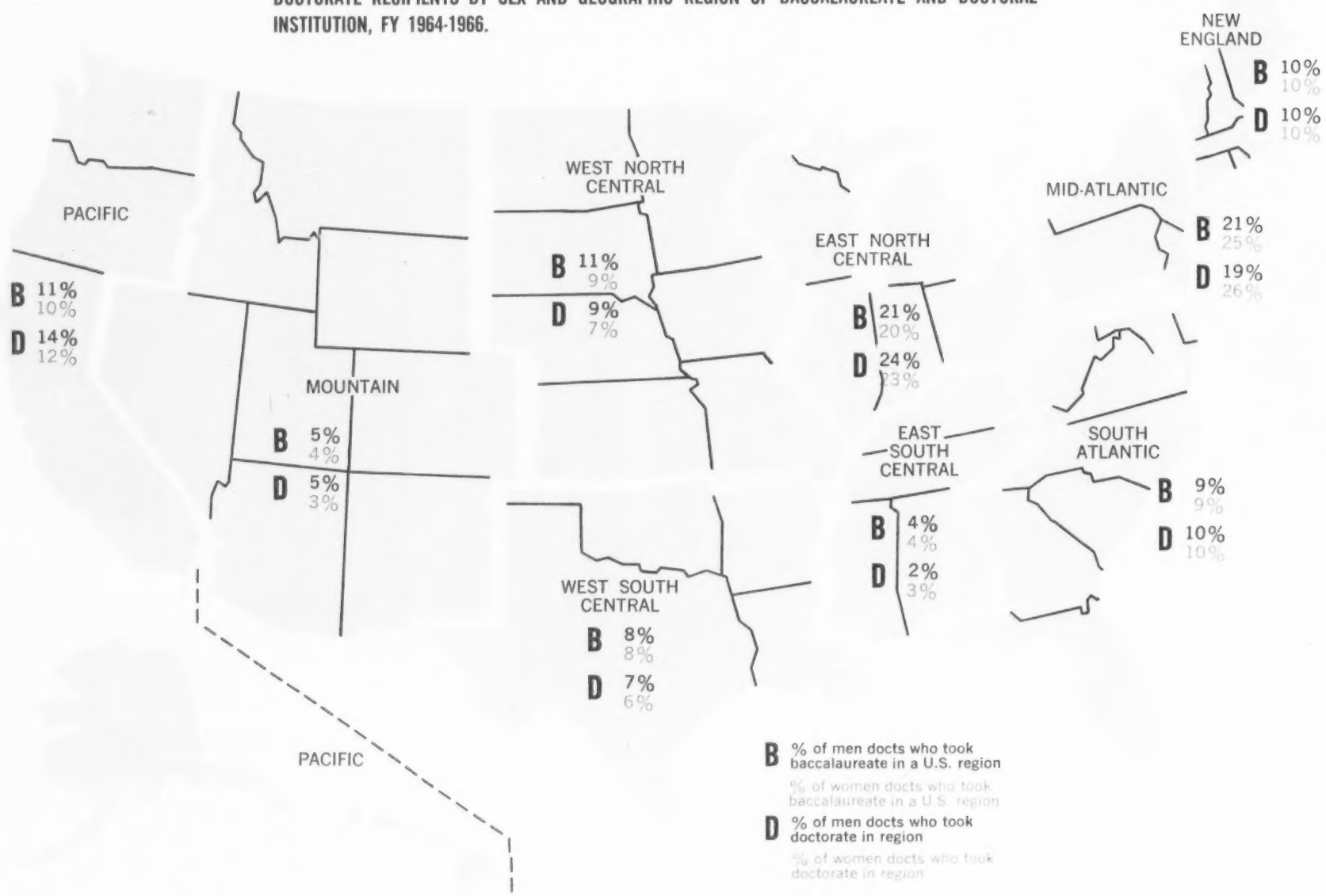
Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 25
DOCTORATE RECIPIENTS BY SEX AND SUMMARY FIELD, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 26
DOCTORATE RECIPIENTS BY SEX AND GEOGRAPHIC REGION OF BACCALAUREATE AND DOCTORAL INSTITUTION, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

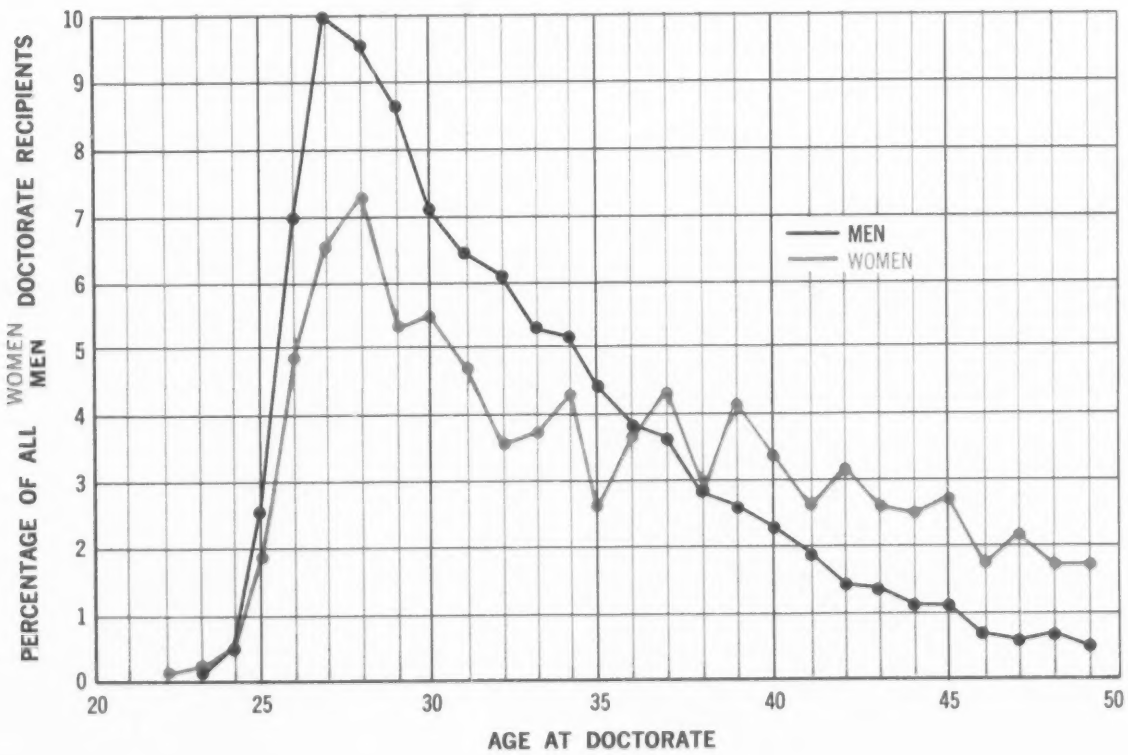
The data in Figure 26 refer to United States women, but an additional 9 percent of the doctorate recipients from foreign countries were women (compared with 11 percent for the United States group). The percentage varied greatly from region to region, as illustrated in the following examples:

Region	% Women
Philippines	33
Southern Europe	14
Latin America	13
China	12
—	—
—	—
India	6
Australia	4
Africa	2

Figure 27 shows distributions of age at the doctorate for men and women, all fields combined. The modal ages are about the same—27 for men and 28 for women—but a smaller percentage of women complete graduate work to the doctorate with minimal interruption. As a result, larger percentages of women receive doctorates after age 40 (30 percent compared with 10 percent for men), and the median age at the doctorate for women is 35 compared with 31 for men.

The median age at the doctorate for men and women in the natural sciences differs by less than one year—women being slightly younger; in the social sciences and arts and humanities women are older than men by about two years; and in professional fields and education the women are three to five years older. These age differences reflect differences in graduate-school-attendance patterns and field mores rather than academic aptitude. Women are more concentrated in fields with long total-time lapse (arts and humanities and education), and they have more breaks in their graduate-school attendance (see Table 31). Women have longer total-time lapse than men in almost every field, but when registered times are compared, the time lapses are almost identical.

FIGURE 27
DISTRIBUTION OF DOCTORATE RECIPIENTS BY AGE AT DOCTORATE AND BY SEX, FY 1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 31

Median Age at Doctorate and Time Lapse from Baccalaureate to Doctorate by Sex and Field, FY 1964 - 1966

Field of Doctorate	Sex	Median Years from Baccalaureate to Doctorate (1964-66 doctorates)		Median Age at Doctorate (1966 doctorates)
		Total Time	Registered Time	
TOTAL ALL FIELDS	M	7.9 yrs	5.3 yrs	31.5 yrs
	F	11.2	5.9	35.3
PHYSICAL SCIENCES AND ENGINEERING	M	6.3	5.1	29.3
	F	6.3	5.1	28.7
MATHEMATICS	M	5.9	5.0	28.4
	F	6.9	5.1	29.4
PHYSICS AND ASTRONOMY	M	6.4	5.6	29.0
	F	6.3	5.3	—
Elementary Particles	M	5.9	5.3	28.3
	F	—	—	—
Solid State	M	6.6	5.8	29.4
	F	—	—	—
CHEMISTRY	M	5.5	4.8	28.3
	F	6.0	5.0	28.4
Organic	M	5.2	4.6	27.8
	F	5.6	4.8	28.3
Physical	M	5.8	4.9	28.4
	F	6.2	5.1	28.4
EARTH SCIENCES	M	7.6	5.5	31.0
	F	—	—	—
ENGINEERING	M	6.9	5.1	30.2
	F	—	—	—
Chemical	M	5.9	4.7	28.6
	F	—	—	—
Electrical	M	6.8	5.3	30.1
	F	—	—	—
BIOLOGICAL SCIENCES	M	7.3	5.3	31.1
	F	7.9	5.3	30.3
AGRICULTURE AND FORESTRY	M	7.8	5.1	32.3
	F	8.3	4.9	—
HEALTH SCIENCES	M	8.3	5.6	32.2
	F	10.1	5.3	33.3
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	M	6.7	5.3	29.7
	F	7.1	5.2	29.8
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	7.3	5.3	30.8
	F	8.2	5.6	30.6
ECOLOGY, HYDROBIOLOGY	M	7.3	5.3	30.6
	F	—	—	—
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	7.2	5.4	31.1
	F	7.6	5.6	29.7

TABLE 31

(continued)

Field of Doctorate	Sex	Median Years from Baccalaureate to Doctorate (1964-66 doctorates)		Median Age at Doctorate (1966 doctorates)
		Total Time	Registered Time	
SOCIAL SCIENCES	M	7.8 yrs	5.2 yrs	31.7 yrs
	F	9.8	5.9	33.7
PSYCHOLOGY	M	6.8	5.4	30.4
	F	9.0	6.0	31.6
ANTHROPOLOGY, ARCHEOLOGY	M	9.2	5.3	33.6
	F	10.8	6.4	—
SOCIOLOGY	M	8.9	5.8	32.7
	F	11.3	5.9	39.4
ECONOMICS, ECONOMETRICS	M	7.9	4.9	32.2
	F	8.0	5.2	30.6
POLITICAL SCIENCE, INT RELAT	M	8.6	5.2	31.8
	F	8.9	6.0	30.0
ARTS AND HUMANITIES	M	9.2	5.7	33.3
	F	10.8	5.9	35.3
HISTORY	M	8.8	5.7	32.5
	F	10.0	6.1	35.6
ENGLISH AND AMERICAN LANG AND LIT	M	9.5	5.8	33.1
	F	10.9	5.9	34.3
MODERN FOREIGN LANG AND LIT	M	9.3	5.6	34.0
	F	10.0	5.7	34.3
CLASSIC LANG AND LIT	M	8.2	5.6	32.8
	F	9.7	5.6	—
PHILOSOPHY	M	7.3	5.3	30.3
	F	8.5	6.5	—
SPEECH AND DRAMATIC ARTS	M	9.9	5.1	34.5
	F	15.5	5.8	39.8
FINE ARTS AND MUSIC	M	12.1	5.8	36.1
	F	12.5	6.8	39.5
PROFESSIONAL FIELDS	M	10.5	6.1	34.3
	F	14.8	5.2	39.4
BUSINESS ADMINISTRATION	M	9.5	5.3	33.4
	F	—	—	—
RELIGION AND THEOLOGY	M	11.5	7.3	34.8
	F	—	—	—
EDUCATION	M	13.3	6.8	37.8
	F	16.0	6.8	41.2

Note: Medians were not calculated for groups with less than 25 known cases.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

EMPLOYMENT

After completing formal education, the first employment pattern for women is generally similar to that of men, but some differences do exist. Figure 28 compares the type of first postdoctoral employer for men and for women, all fields combined. For both sexes, educational institutions are by far the major employers, accounting for four out of five women and two out of three men. The most noticeable difference in pattern is in the percentage choosing industry (13 percent of the men compared to 2 percent of the women).

Table 32 provides more detailed data on postdoctoral employment practices in various fields. The physical sciences and engineering show the greatest differences in employment of men and of women, but even here the rank order is the same. Smaller percentages of men enter education, and larger percentages go into industry and government.

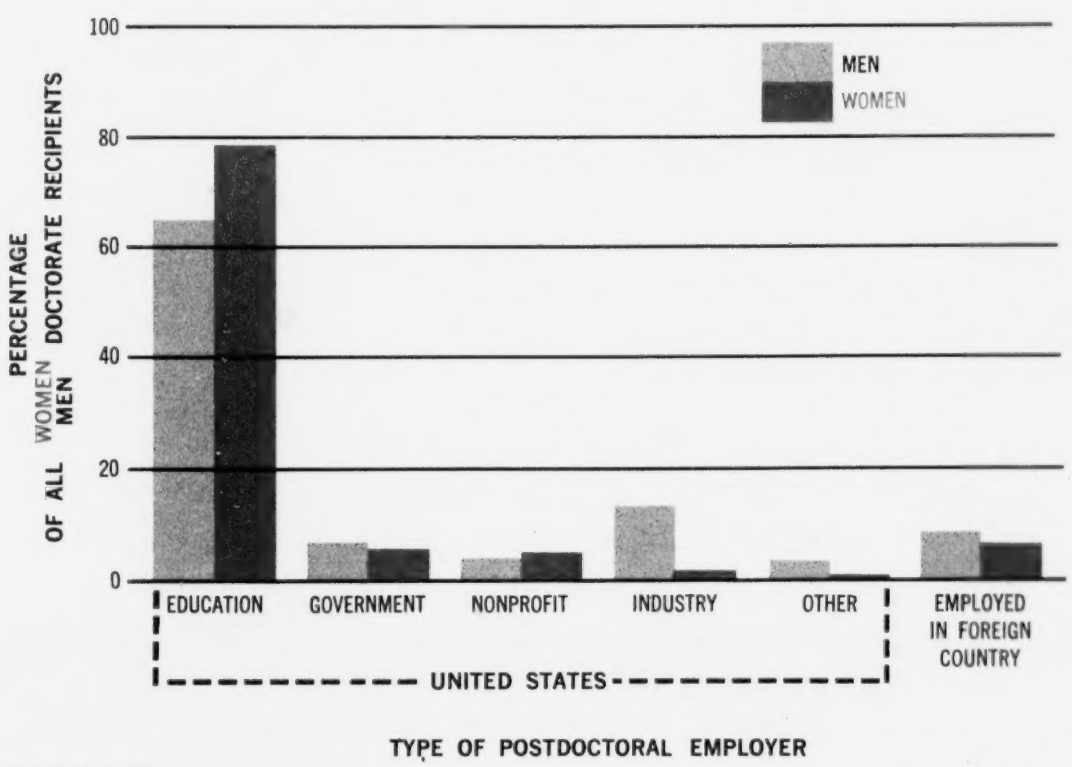
The biological sciences and professional fields show the same general pattern as the physical sciences, but the employment patterns of men and of women differ less than in the physical sciences. The social sciences, arts and humanities, and education show little difference in employment pattern between men and women even though the fields differ considerably from each other in other respects.

The type of employer determines to some extent the kind of work activity performed, so the patterns exhibited in Figure 29 and Table 33 (pp. 118, 119) are what one would expect.

Teaching is the major postdoctoral work activity for both sexes, but women are more concentrated in this activity than men. This is consistent with the previous findings that a greater percentage of women doctorate recipients receive their degree in the fields of education and the arts and humanities and that graduates of these fields are largely employed by colleges and universities.

Men are more likely than women to continue in research, but, even so, fewer than one third of the men and one sixth of the women do research as a primary postdoctoral work activity. If fellowship activities are regarded primarily as research, then two fifths of the men and one fourth of the women are primarily engaged in research in their first postdoctoral employment.

FIGURE 28
TYPE OF FIRST POSTDOCTORAL EMPLOYER BY SEX, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 32

Type of First Postdoctoral Employer by Sex and Field, FY 1964 - 1966

Field of Doctorate	Sex	Doctorate Recipients by Type of Postdoctoral Employer: Educational Institution N	%	Government N	%	Nonprofit N	%	Industry N	%	Other N	%	Foreign N	%	Total with Known Employer N (100%)	Employer Unknown N
TOTAL ALL FIELDS	M	25,748	64	2,667	7	1,507	4	5,397	13	1,081	3	3,631	9	40,031	3,073
	F	3,696	79	254	6	253	5	102	2	46	1	330	7	4,681	706
PHYSICAL SCIENCES AND ENGINEERING	M	6,959	47	830	6	486	3	4,492	31	596	4	1,290	9	14,653	1,296
	F	305	71	15	4	12	3	48	11	1	—	48	11	429	89
MATHEMATICS	M	1,318	73	47	3	54	3	187	10	39	2	154	9	1,799	110
	F	98	86	—	—	4	4	4	4	—	—	7	6	113	18
PHYSICS AND ASTRONOMY	M	1,444	55	227	9	101	4	480	18	125	5	233	9	2,610	285
	F	28	60	2	4	—	—	8	17	—	—	9	19	47	17
Elementary Particles	M	313	69	19	4	21	5	27	6	22	5	52	11	454	29
	F	2	67	—	—	—	—	1	33	—	—	—	—	3	2
Solid State	M	341	46	61	8	24	3	228	30	31	4	64	9	749	40
	F	8	58	—	—	—	—	3	21	—	—	3	21	14	2
CHEMISTRY	M	1,557	42	170	5	82	2	1,470	40	131	3	296	8	3,706	383
	F	162	70	10	4	6	3	31	13	—	—	24	10	233	48
Organic	M	570	37	48	3	29	2	736	48	50	3	103	7	1,536	136
	F	61	66	2	2	3	3	17	19	—	—	9	10	92	16
Physical	M	462	44	64	6	26	3	355	34	44	4	98	9	1,049	88
	F	47	66	5	7	2	3	9	13	—	—	8	11	71	17
EARTH SCIENCES	M	435	44	147	15	33	3	210	22	30	3	129	13	984	83
	F	9	60	1	7	1	7	—	—	1	7	3	19	15	3
ENGINEERING	M	2,205	40	239	4	216	4	2,145	39	271	5	478	8	5,554	435
	F	8	38	2	9	1	5	5	24	—	—	5	24	21	3
Chemical	M	204	22	24	3	14	1	579	63	34	4	64	7	919	84
	F	—	—	1	25	—	—	3	75	—	—	—	—	4	—
Electrical	M	470	42	43	4	60	5	416	38	42	4	77	7	1,108	95
	F	2	50	—	—	—	—	—	—	—	—	2	50	4	2

TABLE 32

(continued)

Field of Doctorate	Sex	Doctorate Recipients by Type of Postdoctoral Employer: Educational Institution N	%	Government N	%	Nonprofit N	%	Industry N	%	Other N	%	Foreign N	%	Total with Known Employer N (100%)	Employer Unknown N
BIOLOGICAL SCIENCES	M	3,740	58	721	11	245	4	492	8	178	3	1,045	16	6,421	630
	F	519	70	55	8	44	6	24	3	6	1	90	12	738	122
AGRICULTURE AND FORESTRY	M	721	49	192	13	13	1	139	10	23	2	368	25	1,456	181
	F	12	55	—	—	—	—	2	9	—	—	8	36	22	6
HEALTH SCIENCES	M	382	54	76	11	33	5	104	14	30	4	87	12	712	67
	F	47	67	7	10	3	4	5	7	1	2	7	10	70	7
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	M	1,068	61	164	9	97	6	117	7	50	3	249	14	1,745	140
	F	195	70	16	6	26	9	10	4	3	1	29	10	279	49
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	773	54	196	14	73	5	108	8	51	4	218	15	1,419	135
	F	163	71	25	11	12	5	5	2	—	—	25	11	230	25
ECOLOGY, HYDROBIOLOGY	M	81	65	20	16	5	4	1	1	3	3	14	11	124	10
	F	4	67	—	—	—	—	—	—	—	—	2	33	6	—
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	715	74	73	8	24	3	23	2	21	2	109	11	965	98
	F	98	75	7	5	3	2	2	2	2	2	19	14	131	35
SOCIAL SCIENCES	M	3,842	65	715	12	378	6	239	4	184	3	555	10	5,913	390
	F	568	64	118	13	119	13	16	2	19	2	55	6	895	149
PSYCHOLOGY	M	1,330	57	459	20	230	10	122	5	84	4	104	4	2,329	139
	F	298	55	102	19	95	18	10	2	14	3	19	3	538	95
ANTHROPOLOGY, ARCHEOLOGY	M	174	78	9	4	6	3	—	—	2	1	31	14	222	15
	F	39	76	1	2	5	10	—	—	—	—	6	12	51	6
SOCIOLOGY	M	450	80	22	4	25	4	5	1	9	2	54	9	565	28
	F	83	88	1	1	2	2	—	—	2	2	6	7	94	11
ECONOMICS, ECONOMETRICS	M	962	63	136	9	62	4	85	6	53	3	226	15	1,524	116
	F	36	63	6	11	3	5	2	3	—	—	10	18	57	12
POLITICAL SCIENCE, INT RELATIONS	M	707	74	71	7	34	4	18	2	28	3	94	10	952	77
	F	62	75	4	5	4	5	3	4	1	1	8	10	82	17

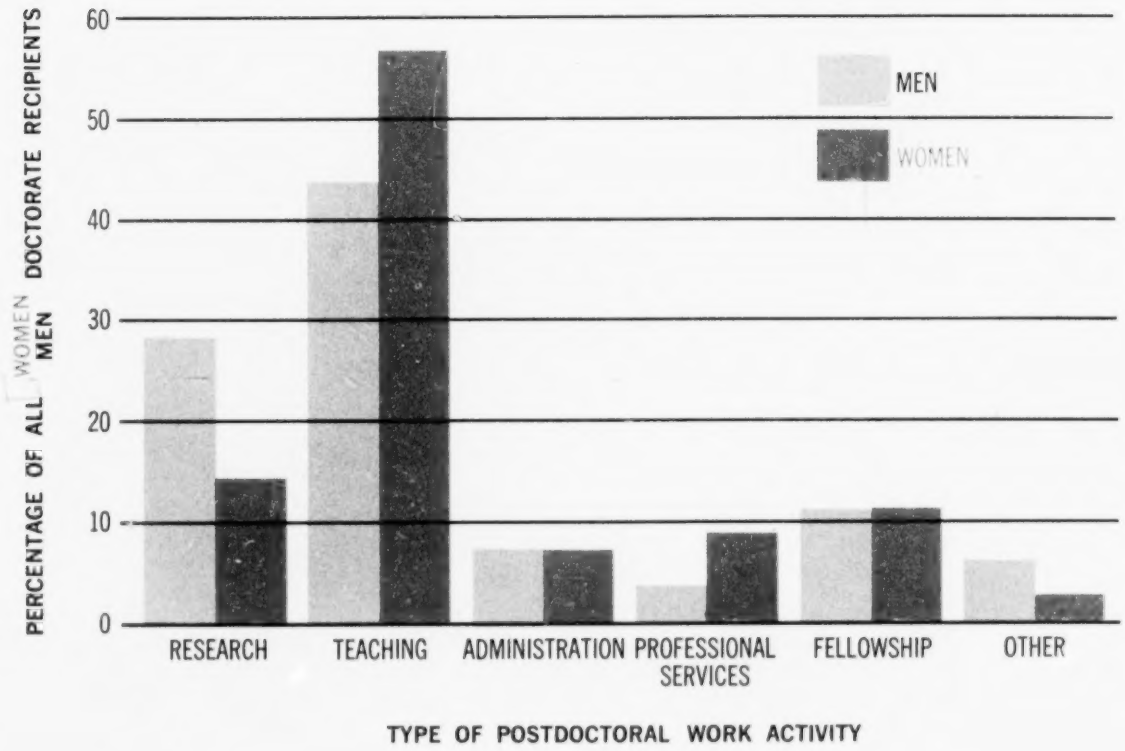
TABLE 32

(continued)

Field of Doctorate	Sex	Doctorate Recipients by Type of Postdoctoral Employer: Educational Institution N	%	Government N	%	Nonprofit N	%	Industry N	%	Other N	%	Foreign N	%	Total with Known Employer N (100%)	Employer Unknown N
ARTS AND HUMANITIES	M	4,730	90	69	1	81	2	29	—	44	1	320	6	5,273	299
	F	967	92	11	1	17	2	3	—	6	—	50	5	1,054	179
HISTORY	M	1,312	86	40	3	33	2	5	—	19	1	91	6	1,500	93
	F	139	90	2	1	6	4	—	—	2	1	6	4	155	31
ENGLISH AND AMERICAN LANG AND LIT	M	1,304	93	1	—	5	—	3	—	11	1	77	6	1,401	61
	F	323	94	1	—	2	—	1	—	2	—	16	5	345	56
MODERN FOREIGN LANG AND LIT	M	699	88	9	1	9	1	4	—	5	1	69	9	795	53
	F	286	92	—	—	3	1	1	—	1	—	22	7	313	45
CLASSIC LANG AND LIT	M	154	84	—	—	5	3	1	—	2	1	22	12	184	14
	F	29	91	1	3	—	—	—	—	—	—	2	6	32	7
PHILOSOPHY	M	352	87	—	—	10	3	4	1	—	—	37	9	403	32
	F	37	90	1	2	1	2	—	—	—	—	2	5	41	10
SPEECH AND DRAMATIC ARTS	M	509	92	17	3	12	2	8	2	3	—	6	1	555	23
	F	72	89	5	6	2	3	1	1	1	1	—	—	81	11
FINE ARTS AND MUSIC	M	371	92	2	—	7	2	3	1	4	1	16	4	403	20
	F	73	94	—	—	3	4	—	—	—	—	2	2	78	17
PROFESSIONAL FIELDS	M	1,095	72	25	2	117	8	88	6	41	3	148	10	1,514	166
	F	122	86	1	1	3	2	2	1	1	1	13	9	142	38
BUSINESS ADMINISTRATION	M	638	78	9	1	13	2	75	9	25	3	58	7	818	61
	F	15	94	—	—	—	—	—	—	—	—	1	6	16	6
RELIGION AND THEOLOGY	M	335	70	2	—	98	21	—	—	1	—	44	9	480	46
	F	14	88	—	—	2	12	—	—	—	—	—	—	16	8
EDUCATION	M	5,382	86	307	5	200	3	57	1	38	1	273	4	6,257	292
	F	1,215	85	54	4	58	4	9	1	13	1	74	5	1,423	129

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 29
TYPE OF FIRST POSTDOCTORAL WORK ACTIVITY BY SEX, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The preceding data have emphasized the following points regarding women doctorate recipients:

- They account for one ninth of all United States doctorates; they are more concentrated in the arts and humanities and education and less concentrated in the physical sciences.
- They are distributed geographically in about the same proportion as men.
- They are older at receipt of the doctorate than the men, but registered-time lapse is the same for both.
- Four fifths of them take their first job with educational institutions where they either teach or have postdoctoral fellowships.

TABLE 33

Type of First Postdoctoral Work Activity by Sex and Field, FY 1962 - 1966

Field of Doctorate	Sex	Doctorate Recipients by Postdoctoral Work Activity: Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
TOTAL ALL FIELDS	M	6,263	11	17,166	30	24,302	42	4,442	8	2,220	4	3,033	5	57,426	7,279
	F	670	10	1,094	16	3,668	55	483	7	530	8	240	4	6,685	1,328
PHYSICAL SCIENCES AND ENGINEERING	M	3,213	16	10,341	50	5,480	26	254	1	53	—	1,426	7	20,767	2,911
	F	153	25	198	33	240	39	2	—	—	—	15	3	608	149
MATHEMATICS	M	188	8	777	31	1,328	54	16	1	11	—	144	6	2,464	267
	F	5	3	31	21	108	71	2	1	—	—	6	4	152	29
PHYSICS AND ASTRONOMY	M	796	21	2,182	57	696	18	32	1	5	—	117	3	3,828	571
	F	14	22	36	55	15	23	—	—	—	—	—	—	65	23
Elementary Particles	M	148	22	405	60	92	14	1	—	2	—	23	4	671	73
	F	1	12	4	50	3	38	—	—	—	—	—	—	8	3
Solid State	M	204	20	597	58	190	19	7	1	—	—	27	2	1,025	97
	F	3	19	11	69	2	12	—	—	—	—	—	—	16	3
CHEMISTRY	M	1,638	30	2,793	51	811	15	39	1	5	—	146	3	5,432	940
	F	126	37	113	33	97	28	—	—	—	—	6	2	342	81
Organic	M	664	31	1,273	57	245	11	9	—	1	—	57	3	2,251	361
	F	55	43	48	37	23	18	—	—	—	—	2	2	128	33
Physical	M	544	34	763	48	219	14	10	1	1	—	41	3	1,578	228
	F	40	37	39	36	29	26	—	—	—	—	1	1	109	19
EARTH SCIENCES	M	144	10	668	46	404	28	14	1	11	—	216	15	1,457	172
	F	4	21	4	21	10	53	—	—	—	—	1	5	19	8
ENGINEERING	M	447	6	3,921	52	2,241	30	153	2	21	—	803	10	7,586	961
	F	4	13	14	47	10	33	—	—	—	—	2	7	30	8
Chemical	M	98	7	785	61	219	17	24	2	1	—	169	13	1,296	186
	F	1	12	6	75	—	—	—	—	—	—	1	12	8	—
Electrical	M	74	5	817	54	464	31	23	1	2	—	141	9	1,521	201
	F	—	—	—	—	3	75	—	—	—	—	1	25	4	3

TABLE 33

(continued)

Doctorate Recipients by Postdoctoral Work Activity

Field of Doctorate	Sex	Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
BIOLOGICAL SCIENCES	M	2,285	25	3,910	42	2,338	25	161	2	96	1	477	5	9,267	1,439
	F	364	4	363	35	269	26	10	1	8	1	18	2	1,032	225
AGRICULTURE AND FORESTRY	M	180	9	1,200	58	462	22	51	2	10	—	184	9	2,087	473
	F	4	13	19	61	7	23	—	—	—	—	1	3	31	9
HEALTH SCIENCES	M	182	18	423	42	237	24	31	3	56	6	75	7	1,004	153
	F	19	22	27	30	26	30	7	8	4	4	5	6	88	18
BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	M	1,076	43	947	38	371	15	22	9	16	6	90	4	2,522	266
	F	175	45	134	34	72	18	1	—	2	1	7	2	391	79
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	543	27	899	44	458	22	38	2	14	1	94	4	2,046	308
	F	123	37	118	36	83	25	2	—	2	—	3	1	331	61
ECOLOGY, HYDROBIOLOGY	M	19	10	72	36	101	50	4	2	—	—	5	2	201	32
	F	—	—	3	37	5	63	—	—	—	—	—	—	8	2
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	285	20	369	26	709	51	15	1	—	—	29	2	1,407	207
	F	43	23	62	34	76	42	—	—	—	—	2	1	183	56
SOCIAL SCIENCES	M	560	6	2,062	24	4,183	48	347	4	1,114	13	467	5	8,733	1,040
	F	99	7	323	25	492	38	40	3	302	23	51	4	1,307	273
PSYCHOLOGY	M	422	12	858	24	1,029	29	85	2	1,012	29	139	4	3,544	357
	F	84	11	192	24	175	22	19	3	286	36	29	4	786	163
ANTHROPOLOGY, ARCHEOLOGY	M	22	6	81	24	219	64	8	2	2	1	10	3	342	38
	F	8	10	24	30	44	55	—	—	—	—	4	5	80	13
SOCIOLOGY	M	29	4	212	25	531	64	27	3	19	2	15	2	833	92
	F	1	1	38	28	85	62	4	3	5	3	3	2	136	32
ECONOMICS, ECONOMETRICS	M	39	2	671	31	1,173	54	78	3	36	2	177	8	2,174	294
	F	2	2	29	33	52	59	1	1	1	1	3	3	88	21
POLIT SCIENCE, INT RELATIONS	M	45	3	152	11	918	68	119	9	15	1	104	8	1,353	205
	F	2	2	22	20	67	63	8	7	2	2	6	6	107	30

TABLE 33

(continued)

Field of Doctorate	Sex	Fellowship N	Fellowship %	Research N	Research %	Teaching N	Teaching %	Administration N	Administration %	Professional Services N	Professional Services %	Other N	Other %	Total with Known Activity N (100%)	Activity Unknown N
		Doctorate Recipients by Postdoctoral Work Activity													
ARTS AND HUMANITIES	M	124	2	245	3	6,666	89	216	3	100	1	176	2	7,527	701
	F	31	2	69	5	1,303	87	33	2	11	1	49	3	1,496	306
HISTORY	M	40	2	76	4	1,762	87	69	3	17	1	67	3	2.031	230
	F	9	4	11	5	195	86	6	3	—	—	5	2	226	47
ENGLISH AND AMERICAN LANG AND LIT	M	13	1	18	1	1,942	95	35	2	3	—	26	1	2,037	175
	F	4	1	8	2	474	93	10	2	—	—	12	2	508	99
MODERN FOREIGN LANG AND LIT	M	15	1	70	6	987	89	15	1	6	1	22	2	1,115	99
	F	9	2	26	6	348	87	7	2	—	—	11	3	401	87
CLASSIC LANG AND LIT	M	14	5	14	5	238	86	4	1	3	1	5	2	278	19
	F	2	5	2	5	39	87	1	1	—	—	1	1	45	8
PHILOSOPHY	M	14	2	22	4	539	89	10	2	10	2	6	—	601	65
	F	—	—	6	9	61	86	1	1	—	—	3	4	71	12
SPEECH AND DRAMATIC ARTS	M	14	2	32	4	657	78	53	6	53	6	29	4	838	52
	F	4	4	7	6	85	71	7	6	11	9	5	4	119	25
FINE ARTS AND MUSIC	M	13	2	10	2	502	87	28	5	8	1	19	3	580	55
	F	3	3	6	5	95	83	1	1	—	—	9	8	114	26
PROFESSIONAL FIELDS	M	23	1	169	8	1,559	70	157	7	174	8	141	6	2,223	295
	F	4	2	31	14	160	70	15	7	8	3	10	4	228	62
BUSINESS ADMINISTRATION	M	6	—	110	9	892	76	88	7	13	1	73	6	1,182	111
	F	—	—	1	4	21	91	—	—	—	—	1	4	23	8
RELIGION AND THEOLOGY	M	9	1	15	2	521	70	33	5	128	17	33	5	739	95
	F	—	—	—	—	32	89	1	3	2	5	1	3	36	12
EDUCATION	M	58	1	439	5	4,076	46	3,307	37	683	8	346	4	8,909	893
	F	19	1	110	5	1,204	60	383	19	201	10	97	5	2,014	313

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

APPENDIXES

APPENDIX A

Number of Doctorates Granted by Institution of Doctorate, by Field, 1920 - 1966 and 1960 - 1966

Institution of Doctorate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
ADELPHI	1920-66	15	7	1			7	2	2					1			1			
UNIVERSITY N Y	1960-66	15	7	1			7	2	2					1			1			
AKRON,	1920-66	51					51	25	22											
UNIVERSITY OF	1960-66	46					46	22	20											
ALABAMA,	1920-66	69	8	27	4	9	28	6	10		6	4	1	51		3	21	6	2	19
UNIVERSITY OF	1960-66	47	8	21	1	8	12	4	5		6	4	1	34		1	15	5	2	11
ALASKA,	1920-66	20		8						12				2			1		1	
UNIVERSITY OF	1960-66	16		7						9				2			1		1	
ALBANY,	1920-66																			
SUNY AT	1960-66																			
ALFRED	1920-66	24		1		1	4		2		19									
UNIVERSITY N Y	1960-66	21		1		1	4		2		16									
AMERICAN	1920-66	34	11	3			16	1	2		4	1		10	2	2	3	2		1
UNIVERSITY D C	1960-66	6	6																	
ARIZONA STATE	1920-66	34	1	8		3	15	11	2		10		1	4						4
UNIVERSITY	1960-66	34	1	8		3	15	11	2		10		1	4						4
ARIZONA,	1920-66	218	18	18	3	2	41	11	4	88	53	1	10	116	34	2	30	9	4	37
UNIVERSITY OF	1960-66	170	18	18	3	2	33	11	4	48	53	1	10	95	27	2	25	9	3	29
ARKANSAS,	1920-66	75		6		1	61	11	13		8	2	2	15	1	2	8	4		
UNIVERSITY OF	1960-66	55		6		1	41	8	10		8	2	2	11	1	1	5	4		
AUBURN	1920-66	48	30				13	8	3		5		2	67	26	4	7	12	2	16
UNIVERSITY ALA	1960-66	42	24				13	8	3		5		2	55	22		7	9	2	15
BALL STATE	1920-66																			
UNIVERSITY IND	1960-66																			
BAYLOR	1920-66	26					26	7	14					49		4	30	14		1
UNIVERSITY TEX	1960-66	18					18	6	12					37		3	24	10		
BOSTON	1920-66	12		4		1	8	2	2					2						2
COLLEGE	1960-66	12		4		1	8	2	2											
BOSTON	1920-66	152	18	47	2	4	67	26	15	20				153		24	81	32	2	14
UNIVERSITY	1960-66	64	10	15	2	3	27	11	9	12				61		9	33	14	1	4
BOWLING GREEN	1920-66																			
ST UNIV OHIO	1960-66																			
BRANDEIS UNIV	1920-66	71	16	37	11	4	18	12	6					41			30	10		1
MASS	1960-66	71	16	37	11	4	18	12	6					40			29	10		1
BRIGHAM YOUNG	1920-66	24		7		4	15	10	1	2				5			4	1		
UNIV UTAH	1960-66	24		7		4	15	10	1	2				5			4	1		
BROWN	1920-66	675	212	164	5	39	244	37	50	5	50		8	165	1	3	46	53	2	60
UNIVERSITY R I	1960-66	246	70	67	5	33	61	24	28	4	44		7	54	1	1	13	30		9
BRYN MAWR	1920-66	79	17	10		2	32	16	3	19	1			28			14	5		9
COLLEGE PA	1960-66	18		3		2	9	6	3	6				9			7	2		
BUFFALO,	1920-66	176	18	33	1	5	114	32	16		11	3	1	81		13	41	23		4
SUNY AT	1960-66	93	10	19	1	3	53	24	13		11	3	1	54		8	26	17		3
CALIFORNIA INST	1920-66	1714	113	486	50	15	393	53	55	143	579	35	98	180	2		100	56		22
OF TECHNOLOGY	1960-66	568	40	154	39	14	100	43	37	45	229	19	34	43			31	12		
CALIF, UNIV OF,	1920-66	3238	397	973	146	87	992	105	179	221	655	76	143	1941	177	96	603	496	14	555
BERKELEY	1960-66	1417	208	360	129	67	313	90	134	84	452	58	100	543	53	24	185	144	13	124
CALIF, UNIV OF,	1920-66	100	4	2			73	14	13	1	20	1		553	102	54	156	188	4	49
DAVIS	1960-66	78	4	2			51	13	12	1	20	1		355	64	30	101	120	4	36
CALIF, UNIV OF,	1920-66	61		23	7	7	3		1	35				11			5	3	1	2
LA JOLLA	1960-66	61		23	7	7	3		1	35				10			5	2	1	2
CALIF, UNIV OF,	1920-66	1005	166	196	15	10	304	113	38	164	175	11	21	548	46	24	121	120	4	233
LOS ANGELES	1960-66	507	104	97	14	9	123	77	29	60	123	10	20	295	15	20	89	65	2	104
CALIF, UNIV OF	1920-66	48	8	21	2	13	18	6	5	1				26	10		4	5		7
RIVERSIDE	1960-66	48	8	21	2	13	18	6	5	1				26	10		4	5		7
CALIF, UNIV OF,	1920-66	34					34							60		17	36	7		
SAN FRANCISCO	1960-66	34					34							60		17	36	7		
CALIF, UNIV OF,	1920-66	8	4	2		1	2	1	1					3			3			
SANTA BARBARA	1960-66	8	4	2		1	2	1	1					3			3			
CARNEGIE INST	1920-66	974	77	186	23	43	224	42	29		487	77	139							
OF TECH PA	1960-66	454	34	80	19	29	90	30	19		250	39	84							

Doctorates by Field																					Institution of Doctorate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
106	106												2					124	ADELPHI
66	66												2					84	UNIVERSITY N Y
																		51	AKRON,
																		46	UNIVERSITY OF
44	24			11	9	35	27	6	2				58	58			121	378	ALABAMA,
40	24			9	7	26	18	6	2				38	38			97	282	UNIVERSITY OF
																		22	ALASKA,
																		18	UNIVERSITY OF
																	13	14	ALBANY,
																	13	14	SUNY AT
																		24	ALFRED
																		21	UNIVERSITY N Y
433	54		25	107	243	73	62				11		51	18		1	46	647	AMERICAN
200	33		13	37	116	26	26						14	14			28	274	UNIVERSITY D C
18	18					2		2									111	169	ARIZONA STATE
18	18					2		2									96	154	UNIVERSITY
76	32	40		1	3	16	5	4	3			4					83	509	ARIZONA,
62	31	27		1	3	16	5	4	3			4					71	414	UNIVERSITY OF
33	10			23		34	1	30	2		1		33	33			201	391	ARKANSAS,
29	10			19		25		22	2		1		33	33			148	301	UNIVERSITY OF
						1		1									86	202	AUBURN
						1		1									67	165	UNIVERSITY ALA
						3	3										27	30	BALL STATE
						3	3										27	30	UNIVERSITY IND
15	15					1		1									26	117	BAYLOR
15	15					1		1									18	89	UNIVERSITY TEX
15	2			12	1	60	23	25	5	6	1		3		3		56	148	BOSTON
11	2			9		5	5										38	66	COLLEGE
288	217	2	30	18	11	427	82	112	24	3	132	74	383		383		492	1895	BOSTON
154	117		17	5	6	168	42	39	12	1	31	43	139		139		234	820	UNIVERSITY
						5		5										5	BOWLING GREEN
						5		5										5	ST UNIV OHIO
58	23	3	2			58	12	12	2	16	8	3	2		2			230	BRANDEIS UNIV
55	21	3	2			51	10	11	2	12	8	3	2		2			219	MASS
5	3					2	1					1	4		4		48	88	BRIGHAM YOUNG
5	3					2	1					1	4		4		48	88	UNIV UTAH
157	87	1	13	36	20	249	51	95	58	2	40		20		20		5	1271	BROWN
77	40		11	18	8	96	21	37	18	2	18		6		6			479	UNIVERSITY R I
97	28	21	12	7	13	223	43	37	63	37	29	13	4				2	433	BRYN MAWR
27	10	3		4	6	64	11	13	14	7	11	8						118	COLLEGE PA
112	95	2	9	6		42	7	12	5		18		8	7		1	262	681	BUFFALO,
72	58	2	8	4		32	6	9	5		12		4	3		1	108	363	SUNY AT
3	3												1					1898	CALIFORNIA INST
3	3												1					615	OF TECHNOLOGY
1378	405	125	79	482	216	1257	538	248	309	49	90	1	22	88	38		788	8690	CALIF, UNIV OF,
503	163	44	47	150	74	397	157	82	110	17	20		11	75	38		293	3228	BERKELEY
						6		6										659	CALIF, UNIV OF,
						6		6										439	DAVIS
						2		1			1							74	CALIF, UNIV OF,
						2		1			1							73	LA JOLLA
559	307	56	34	42	78	435	160	90	107	1	34	8	35	64	64		511	3122	CALIF, UNIV OF,
281	125	45	27	25	30	225	64	48	72	1	11	8	21	61	61		289	1658	LOS ANGELES
						1	1											75	CALIF, UNIV OF
						1	1											75	RIVERSIDE
																		94	CALIF, UNIV OF,
																		94	SAN FRANCISCO
2					2	6	5	1										19	CALIF, UNIV OF,
2					2	6	5	1										19	SANTA BARBARA
45	25			20		8						8		21	21			1048	CARNEGIE INST
28	11			17		8						8		17	17			507	OF TECH PA

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CASE INSTITUTE	1920-66	535	54	111	6	34	122	30	20		248	54	35							
OF TECH OHIO	1960-66	347	44	71	6	27	52	24	15		180	33	31							
CATHOLIC UNIV	1920-66	395	68	155	4	26	138	9	42	3	31		3	167	1		35	40	4	87
OF AMERICA D C	1960-66	147	22	64	4	22	37	7	25		24		3	67			13	29	2	23
CHICAGO,	1920-66	2079	396	539	40	38	842	113	80	301	1			1284	1	162	376	194	5	546
UNIVERSITY OF	1960-66	411	88	121	30	32	137	43	49	65				199		31	76	31	3	58
CINCINNATI,	1920-66	477	57	85	1	15	232	61	22	27	76	31	1	192	1	68	57	31	1	34
UNIVERSITY OF	1960-66	184	23	29	1	14	89	49	15	13	30	16		67		35	11	14	1	6
CITY UNIV	1920-66	2	1				1													
OF NEW YORK	1960-66	2	1				1													
CLAREMONT GRAD	1920-66													20				3		17
& UNIV CEN CAL	1960-66													15				2		13
CLARK	1920-66	104		5			95	11	16	4				10	1		5	2		2
UNIV MASS	1960-66	28		1			27	7	11					5			3	2		
CLARKSON COLL	1920-66	11		1			7	3	4		3	3								
OF TECH N Y	1960-66	11		1			7	3	4		3	3								
CLEMSON	1920-66	27		3		3	20	10	3	1	3	2		17	9			8		
UNIVERSITY S C	1960-66	27		3		3	20	10	3	1	3	2		17	9			8		
COLORADO SCHOOL	1920-66	113		1			3	1	1	60	49	1								
OF MINES	1960-66	40		1			1			19	19	1								
COLORADO STATE	1920-66																			
COLLEGE	1960-66																			
COLORADO STATE	1920-66	67	4	5		2	4	2	2	3	51			89	31	10	23	9	3	13
UNIVERSITY	1960-66	59	4	4		2	4	2	2	3	44			85	31	10	22	7	2	13
COLORADO,	1920-66	589	56	128	7	23	273	73	22	69	63	19	16	204		33	69	43	4	55
UNIVERSITY OF	1960-66	318	41	99	7	22	93	56	19	39	46	9	15	67		7	20	12	1	27
COLUMBIA UNIV	1920-66																			
TEACH COLL N Y	1960-66																			
COLUMBIA	1920-66	2501	192	468	41	20	1003	105	70	332	506	143	64	876	3	125	266	145	2	335
UNIVERSITY N Y	1960-66	696	72	174	29	20	148	61	35	89	213	34	46	195		30	65	46	1	53
CONNECTICUT,	1920-66	168		38		11	102	20	11		28	5	6	122	6	52	18	36	1	9
UNIVERSITY OF	1960-66	101		29		10	44	16	6		28	5	6	73	5	26	16	21	1	4
CORNELL	1920-66	2007	172	468	49	55	728	168	148	101	538	66	76	2645	937	180	357	671	47	453
UNIVERSITY N Y	1960-66	596	45	145	40	46	150	71	40	16	240	31	52	590	228	29	114	139	22	58
DARTMOUTH	1920-66	7	6								1	1		5			4			1
COLLEGE N H	1960-66	7	6								1	1		2			1			1
DELAWARE,	1920-66	381	1	5		4	254	88	35		121	89	2	34		1	12	6	1	14
UNIVERSITY OF	1960-66	174	1	5		4	103	61	23		65	47	2	32		1	12	5		14
DENVER,	1920-66	10		3	1						7		2							
UNIVERSITY OF	1960-66	10		3	1						7		2							
DOWNSTATE MED	1920-66													28		12	13	3		
CENTER N Y	1960-66													28		12	13	3		
DREW	1920-66																			
UNIVERSITY N J	1960-66																			
DROPSIE	1920-66																			
COLLEGE PA	1960-66																			
DUKE UNIVERSITY	1920-66	481	77	164	7	15	228	57	26		12		10	426	86	4	97	46	15	178
N CAR	1960-66	172	28	69	5	13	63	36	20		12		10	166	33	3	48	22	10	50
DUQUESNE	1920-66	21					21	12	6					9			9			
UNIVERSITY PA	1960-66	14					14	9	5					7			7			
EAST TEXAS	1920-66																			
STATE UNIV	1960-66																			
EMORY	1920-66	60					60	23	5					86		6	24	37	4	15
UNIVERSITY GA	1960-66	22					22	12	5					55		5	14	27	3	6
FLORIDA STATE	1920-66	165	16	35	6		92	22	16	22				72		3	30	8	4	27
UNIVERSITY	1960-66	117	16	32	6		51	18	11	18				47			22	8	1	16
FLORIDA,	1920-66	481	56	53	1	8	237	55	26	2	133	32	27	327	106	83	37	29	8	64
UNIVERSITY OF	1960-66	293	23	39	1	8	112	49	19	1	118	22	24	168	69	17	23	25	4	30
FORDHAM	1920-66	211	2	34		3	171	89	27	4				180			76	33	1	70
UNIVERSITY N Y	1960-66	63		12		2	51	27	13					45			16	16	1	12

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Doctorate
7	2		1	1		1	1						1	1				544	CASE INSTITUTE
7	2		1	1		1	1						1	1				356	OF TECH OHIO
448	176	16	138	70	19	776	182	117	106	136	210		24	721	1	688	319	2826	CATHOLIC UNIV
127	57	7	29	9	6	154	38	26	18	16	36		20	138		123	106	739	OF AMERICA D C
2311	680	175	474	364	423	1484	469	369	302	145	139	2	38	872	146	521	597	8627	CHICAGO,
591	169	66	100	98	102	274	112	58	37	19	28		13	167	38	116	174	1816	UNIVERSITY OF
68	39	5		14	8	107	2	38	26	26	15			2			129	975	CINCINNATI,
30	15	2		10	2	34	2	10	10	8	4						34	349	UNIVERSITY OF
2	2					2		2										6	CITY UNIV
2	2					2		2										6	OF NEW YORK
110	55		1	15	38	57	20	19	5		9		3	24	1	22	40	251	CLAREMONT GRAD
81	33			13	34	44	13	18	2		9		1	23		22	28	191	& UNIV CEN CAL
400	143		4	46	17	67	66	1						3			3	587	CLARK
96	45			16	2	7	7										2	138	UNIV MASS
																		11	CLARKSON COLL
																		11	OF TECH N Y
1				1														45	CLEMSON
1				1														45	UNIVERSITY S C
																		113	COLORADO SCHOOL
																		40	OF MINES
2	2																754	756	COLORADO STATE
2	2																483	485	COLLEGE
																		156	COLORADO STATE
																		144	UNIVERSITY
227	109	4	21	65	28	199	86	64	40	1	4		4	13	13		397	1629	COLORADO,
144	67	4	14	41	18	98	36	34	23	1	1		3	13	13		157	797	UNIVERSITY OF
3	2													2		1	2240	2245	COLUMBIA UNIV
1														1		1	1292	1294	TEACH COLL N Y
2375	770	217	290	616	349	2858	851	722	716	101	362	20	77	566	168	184	3776	12952	COLUMBIA
751	221	59	76	154	170	812	219	261	174	23	77	10	43	165	62	69	79	2698	UNIVERSITY N Y
121	106		6	8	1	37		27	9				1	2	1		236	686	CONNECTICUT,
72	60		4	7	1	37		27	9				1	1			163	447	UNIVERSITY OF
974	261	59	177	368	94	900	189	278	153	50	92	88	41	146	63		444	7116	CORNELL
253	65	31	50	66	37	209	45	51	42	14	19	19	19	42	18		143	1833	UNIVERSITY N Y
																		12	DARTMOUTH
																		9	COLLEGE N H
14	14					6	4	2						2			2	439	DELAWARE,
14	14					6	4	2						2			2	230	UNIVERSITY OF
203	187		2		14	245	10	70				147	18	2			253	713	DENVER,
77	63				14	120	10	39				63	8				102	309	UNIVERSITY OF
																		28	DOWNSTATE MED
																		28	CENTER N Y
3			3			6		1			5			144		144		153	DREW
						1					1			50		50		51	UNIVERSITY N J
6		2		2		77	28		34	9	5			47		46	25	155	DROPSIE
2		1				16	5		4	5	1			4		3	10	32	COLLEGE PA
378	145		45	99	89	384	176	144	19	8	37			140		138	114	1923	DUKE UNIVERSITY
150	57		11	47	35	153	71	60	7		15			65		65	70	776	N CAR
5	5					9		1			7		1	1		1		45	DUQUESNE
5	5					7		1			6							33	UNIVERSITY PA
																	12	12	EAST TEXAS
																	12	12	STATE UNIV
39	17		9		12	88	33	22	5		22		1	27	1	26		300	EMORY
32	12		9		11	62	21	12	5		21		1	27	1	26		198	UNIVERSITY GA
173	122		35		8	123	17	35	12		2	12	39	40			265	838	FLORIDA STATE
120	86		22		7	86	16	25	9		2	3	25	30			214	614	UNIVERSITY
216	113		11	52	24	168	43	77	8			40		26	23	1	271	1489	FLORIDA,
140	72		5	32	19	97	28	38	6			25		21	20		147	866	UNIVERSITY OF
358	208		47	46	57	624	137	112	70	42	217			4		1	320	1697	FORDHAM
100	73		10	13	4	142	26	53	12	15	36						102	452	UNIVERSITY N Y

Appendix A

continued

Institution of Doctorate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																			
FORESTRY, C OF,	1920-66	71		1			60	30	20		10	1		89	66		4	8	3	8	
AT SYRACUSE	1960-66	47		1			38	19	15		8			47	31		4	5	3	4	
GEO PEABODY COL	1920-66	34	29				4			1				5	2					3	
FOR TEACH TENN	1960-66	5	5																		
GEO WASHINGTON	1920-66	95	24	13		1	34	2	4	15	9	1	1	248	2	39	89	66		52	
UNIVERSITY D C	1960-66	24	7	2		1	9	2	3		6		1	64	1	10	26	24		3	
GEORGETOWN	1920-66	172	2	32			138	11	10					152		37	94	18		3	
UNIVERSITY D C	1960-66	46	2	22			22	8	9					59		15	36	8			
GEORGIA INST	1920-66	254	3	32	2	3	65	36	7		154	65	27								
OF TECHNOLOGY	1960-66	188	3	29	2	3	42	29	4		114	37	18								
GEORGIA,	1920-66	43	28	2	1		13	3	1					91	27		7	14	13	30	
UNIVERSITY OF	1960-66	31	16	2	1		13	3	1					83	27		7	13	12	24	
HAHNEMANN MED	1920-66	1					1							30		12	7	11			
COLL & HOSP PA	1960-66													21		8	5	8			
HARVARD	1920-66	2433	402	738	29	71	735	151	108	317	241	1	20	1020	5	133	282	93	13	494	
UNIV MASS	1960-66	761	165	262	24	52	171	74	59	93	70		5	257		34	124	40	7	52	
HAWAII,	1920-66	26					25	14	4	1				68	16		7	17	3	25	
UNIVERSITY OF	1960-66	20					19	10	4	1				57	16		7	14	1	19	
HEBREW UNION	1920-66																				
COLLEGE CAL	1960-66																				
HEBREW UNION	1920-66																				
COLLEGE N Y	1960-66																				
HEBREW UNION	1920-66																				
COLLEGE OHIO	1960-66																				
HOUSTON,	1920-66	23					11	6	4		12	12		4			3	1			
UNIVERSITY OF	1960-66	23					11	6	4		12	12		4			3	1			
HOWARD	1920-66	25		7		4	18	7	8					17		3	4	5		5	
UNIVERSITY D C	1960-66	20		7		4	13	3	7					17		3	4	5		5	
IDAHO,	1920-66	24	3				12	8	1	4	5	5		6	1		2	1	1	1	
UNIVERSITY OF	1960-66	24	3				12	8	1	4	5	5		6	1		2	1	1	1	
ILLINOIS INST	1920-66	471	40	73		14	119	22	24		239	55	37	26			18	7		1	
OF TECHNOLOGY	1960-66	218	25	25		10	49	19	20		119	23	21	17			15	2			
ILLINOIS,	1920-66	3933	346	427	22	116	1806	396	117	207	1147	138	274	1742	502	151	358	399	22	310	
UNIVERSITY OF	1960-66	1427	120	153	18	87	385	155	54	109	660	66	161	615	187	53	169	128	9	69	
INDIANA	1920-66	675	86	184	16		336	92	56	69				343		16	82	83	7	155	
UNIVERSITY	1960-66	250	46	63	15		107	49	22	34				151		11	41	52	7	40	
IOWA STATE UNIV	1920-66	1498	134	159	1	42	727	145	202	18	460	101	71	1533	595	85	221	447	6	179	
OF SCI & TECH	1960-66	654	66	61	1	36	227	72	83	13	287	52	47	433	218	20	72	85	2	36	
IOWA,	1920-66	1061	93	132	5	3	524	191	107	111	201	43	27	629	2	106	204	55	1	261	
UNIVERSITY OF	1960-66	273	32	33	5	3	113	60	19	26	69	10	11	174		56	55	19	1	43	
JEFFERSON MED	1920-66													63		30	18	15			
COLL OF PHILA	1960-66													37		15	12	10			
JEWISH THEOL	1920-66																				
SEM OF AM N Y	1960-66																				
JOHNS HOPKINS	1920-66	1385	76	320	18	21	500	56	54	152	337	45	88	979	2	311	244	197	9	216	
UNIVERSITY MD	1960-66	348	22	98	16	17	64	27	29	36	128	19	29	181		34	83	51	4	9	
KANSAS,	1920-66	538	47	63	1	9	318	74	33	51	59	23	21	299	1	9	41	138	1	109	
UNIVERSITY OF	1960-66	269	24	25		8	140	55	27	28	52	16	21	115		8	16	46		45	
KANSAS ST UNIV	1920-66	190		19		8	144	27	25		27	6	1	320	90	29	23	150	1	27	
OF AG & AP SCI	1960-66	113		13		8	74	21	19		26	6	1	178	65	9	20	72	1	11	
KENT STATE	1920-66	3					3		1					2				1	1		
UNIV OHIO	1960-66	3					3		1					2				1	1		
KENTUCKY,	1920-66	126	37	27	3	3	56	15	11		6			57	30		8	17		2	
UNIVERSITY OF	1960-66	44	9	15	3	3	19	7	7		1			48	30		8	8		2	
LAWRENCE	1920-66	243		17			196	52	23		30	25		1			1				
UNIV WISC	1960-66	75		3			56	35	14		16	16									
LEHIGH	1920-66	388	22	61		10	104	13	18	18	183	27	6	26		1	2	20	3		
UNIVERSITY PA	1960-66	195	14	32		9	36	9	15	11	102	16	5	12			2	7	3		
LOMA LINDA	1920-66	1					1							3			1	2			
UNIVERSITY CAL	1960-66	1					1							2			1	1			

Doctorates by Field																					Institution of Doctorate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
4				4										1				165	FORESTRY, C OF,
3				3										1				98	AT SYRACUSE
110	94		4	7	1	117	35	53	10	4			15	3		1	735	1004	GEO PEABODY COL
37	37					25	7	11	1				6				232	299	FOR TEACH TENN
121	60		1	36	22	49	23	14	8		3			49	22		154	716	GEO WASHINGTON
43	24			10	9	13	8	3	2					28	18		59	231	UNIVERSITY D C
188			4	48	132	206	146	5	23	1	31			23			1	742	GEORGETOWN
77				25	48	83	51		23		9			2				267	UNIVERSITY D C
																		254	GEORGIA INST
																		188	OF TECHNOLOGY
27	23			1	1	40	29	10	1								137	338	GEORGIA,
27	23			1	1	36	27	8	1								106	283	UNIVERSITY OF
																		31	HAHNEMANN MED
																		21	COLL & HOSP PA
2403	383	240	215	954	575	3209	1016	635	527	134	364	2	226	792	320	179	776	10633	HARVARD
635	134	88	54	218	127	856	283	209	163	65	68		63	278	146	94	270	3057	UNIV MASS
9	8			1		4	3		1									107	HAWAII,
9	8			1		4	3		1									90	UNIVERSITY OF
1		1												5		5		6	HEBREW UNION
1		1												5		5		6	COLLEGE CAL
						1								3		3		4	HEBREW UNION
						1								1		1		2	COLLEGE N Y
2			1		1	22	10		5	5	1		1	51		50	1	76	HEBREW UNION
						12	7		1	4				22		21	1	35	COLLEGE OHIO
142	138			4													191	360	HOUSTON,
91	87			4													92	210	UNIVERSITY OF
						1	1											43	HOWARD
						1	1											38	UNIVERSITY D C
2					2	2	2										17	51	IDAHO,
2					2	2	2										17	51	UNIVERSITY OF
53	52			1										4	3			554	ILLINOIS INST
27	27													1	1			263	OF TECHNOLOGY
970	302	1	53	422	147	1048	231	311	228	67	33	126	45	249	180		638	8580	ILLINOIS,
352	135	1	28	118	45	360	55	117	60	7	15	65	36	132	93		338	3224	UNIVERSITY OF
545	223	29	43	131	102	726	171	151	175	4	27	44	145	230	221	1	1462	3981	INDIANA
254	92	13	20	54	68	432	76	78	124	1	17	39	94	147	141	1	753	1987	UNIVERSITY
273	1		33	238										26	3		78	3408	IOWA STATE UNIV
118	1		15	101										8			27	1240	OF SCI & TECH
958	583		73	136	137	1200	203	288	114	18	43	286	245	206	116	43	838	4892	IOWA,
202	120		23	25	17	338	45	65	20	2	12	98	96	70	20	24	289	1346	UNIVERSITY OF
																		63	JEFFERSON MED
																		37	COLL OF PHILA
						11	3		2	5			1	85		85	4	100	JEWISH THEOL
						11	3		2	5			1	14		14	1	26	SEM OF AM N Y
492	143	69	3	116	140	669	148	161	208	86	48	2	15	12		6	103	3640	JOHNS HOPKINS
103	34	1	3	32	27	157	40	32	30	22	23		9	2		1	16	807	UNIVERSITY MD
203	149		9	22	17	123	30	41	32			18	2	1			297	1461	KANSAS,
74	52		1	6	10	74	13	24	18			18	1				152	684	UNIVERSITY OF
17	8			9		1		1						5				533	KANSAS ST UNIV
17	8			9		1		1						5				314	OF AG & AP SCI
						3		3									16	24	KENT STATE
						3		3									16	24	UNIV OHIO
217	126		20	45	26	82	45	29	8					1			161	644	KENTUCKY,
94	44		10	25	15	30	18	11	1								61	277	UNIVERSITY OF
														1				245	LAWRENCE
														1				76	UNIV WISC
2	2					16	7	8									10	442	LEHIGH
2	2					9	4	4									10	228	UNIVERSITY PA
																		4	LOMA LINDA
																		3	UNIVERSITY CAL

Appendix A

continued

Institution of Doctorate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
LA STATE UNIV &	1920-66	327	35	54	4	11	136	12	29	61	41	35		305	151	6	28	45		75
AG & MECH COLL	1960-66	161	25	32	4	9	57	10	25	27	20	20		165	97	1	13	29		25
LOUISVILLE,	1920-66	78					70	39	16		8	8		39		5	17	2	2	13
UNIVERSITY OF	1960-66	51					43	27	14		8	8		37		3	17	2	2	13
LOWELL TECHNOL	1920-66	8					8	7	1											
INSTITUTE MASS	1960-66	8					8	7	1											
LOYOLA	1920-66	23					23	9	5					77		21	35	21		
UNIVERSITY ILL	1960-66	18					18	7	5					39		10	19	10		
MAINE,	1920-66	15					14	12	2		1	1		6	4		2			
UNIVERSITY OF	1960-66	15					14	12	2		1	1		6	4		2			
MARQUETTE	1920-66	14	3	2			9							28		7	12	5		4
UNIV WISC	1960-66													23		7	12	4		
MARYLAND,	1920-66	664	69	162	17	39	320	91	22	1	112	37	14	698	242	79	76	187		114
UNIVERSITY OF	1960-66	305	42	106	17	30	82	47	9		75	21	9	238	81	20	38	75		24
MASS COLLEGE	1920-66	5					5							7		6	1			
OF PHARMACY	1960-66	2					2							5		4	1			
MASS INSTITUTE	1920-66	4354	275	750	69	69	1084	248	148	271	1974	302	328	165	2	21	103	23		16
OF TECHNOLOGY	1960-66	1657	131	238	55	53	305	130	67	89	894	130	183	66	2	2	52	8		2
MASSACHUSETTS,	1920-66	89					87	21	7	2				206	33	23	64	73	1	12
UNIVERSITY OF	1960-66	51					49	18	5	2				56	9		8	26	1	12
MEDICAL COLL OF	1920-66	4					4							19		11	4	4		
SOUTH CAROLINA	1960-66													10		6	3	1		
MEDICAL COLLEGE	1920-66	8					8	1						30		15	6	9		
OF VIRGINIA	1960-66	5					5							20		5	6	9		
MIAMI,	1920-66	14	1				6	2	4	7				41	2	1	10	7	11	10
UNIVERSITY OF	1960-66	14	1				6	2	4	7				41	2	1	10	7	11	10
MICHIGAN STATE	1920-66	617	48	71	2	20	278	71	38	15	205	15	40	1023	546	42	100	199	9	127
UNIVERSITY	1960-66	350	31	42	2	16	132	49	30	12	133	6	34	465	255	21	58	73	6	52
MICHIGAN,	1920-66	2603	326	462	29	12	640	87	52	183	992	275	126	1332	146	168	158	233	20	607
UNIVERSITY OF	1960-66	882	112	118	24	6	160	54	33	74	418	93	62	342	55	68	47	56	14	102
MIDDLEBURY	1920-66																			
COLLEGE VT	1960-66																			
MINNESOTA,	1920-66	1470	147	160	4	5	627	214	153	121	415	127	71	2315	628	413	512	508	11	243
UNIVERSITY OF	1960-66	499	68	50	3	5	149	59	45	22	210	61	47	656	209	145	117	135	5	45
MISSISSIPPI	1920-66	6									6	1	2	46	30		1	12		3
ST UNIVERSITY	1960-66	6									6	1	2	38	22		1	12		3
MISSISSIPPI,	1920-66	28					28	9	9					36		17	9	10		
UNIVERSITY OF	1960-66	28					28	9	9					34		17	8	9		
MISSOURI, UNIV	1920-66	449	51	77	3	22	182	29	22	45	94	15	11	507	251	11	94	48	1	102
OF, COLUMBIA *	1960-66	167	18	30	3	18	48	16	16	22	49	12	8	207	95	4	46	33	1	28
MISSOURI, UNIV	1920-66	1					1							1		1				
OF, KANS CITY	1960-66	1					1							1		1				
MONTANA STATE	1920-66	49	6				20	6	6		23	20	3	34	3		3	23	2	3
UNIVERSITY	1960-66	38	6				16	6	4		16	13	3	31	3		2	21	2	3
MONTANA,	1920-66	6								6				2						2
UNIVERSITY OF	1960-66	6								6				2						2
NEBRASKA,	1920-66	284	25	30	1	4	209	56	31	14	6			308	112	16	28	32	3	117
UNIVERSITY OF	1960-66	103	17	18	1	4	55	29	20	7	6			115	43	8	18	22	1	23
NEVADA,	1920-66	5		2			1	1		2										
UNIVERSITY OF	1960-66	5		2			1	1		2										
NEW HAMPSHIRE,	1920-66	59		5			54	34	10					46	12		4	6	1	23
UNIVERSITY OF	1960-66	51		5			46	28	8					39	8		4	6	1	20
N J COLL OF	1920-66													3		1	1	1		
MED & DENT	1960-66													3		1	1	1		
NEW MEXICO INST	1920-66	4								4										
OF MIN & TECH	1960-66	3								3										
NEW MEXICO	1920-66	58	27	23	3	4					8		1							
STATE UNIV	1960-66	58	27	23	3	4					8		1							
NEW MEXICO,	1920-66	135	10	22	6	1	56	12	17	9	38	1	24	16			7	2		7
UNIVERSITY OF	1960-66	98	10	16	5	1	25	7	13	9	38	1	24	6			1			5

* Includes doctorates granted by the University of Missouri at Rolla since July 1964.

Doctorates by Field

Institution of Doctorate	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS
LA STATE UNIV & AG & MECH COLL	210	77	56	54	52	1	202	35	14	58	21	22	21					87	30
LOUISVILLE, UNIVERSITY OF	114	56	15	30		1	86	14	21	21								30	
LOWELL TECHNOL INSTITUTE MASS	3	3																	
LOYOLA UNIVERSITY ILL	3	3																	
MAINE, UNIVERSITY OF	106	101	5				65	28	27	2	3	5							
MARQUETTE UNIV WISC	64	59					27	9	18										
MARYLAND, UNIVERSITY OF	3	3					3	3											
MASS COLLEGE OF PHARMACY	3	3					3	3											
MASS INSTITUTE OF TECHNOLOGY	7	1	3	1	1	1	33	6	6	4	1	16							
MASSACHUSETTS, UNIVERSITY OF	204	94	24	27	36	118	41	47	27			10							
MIAMI, UNIVERSITY OF	102	39	16	17	24	70	27	25	15			3							
MICHIGAN STATE UNIVERSITY	241	27		183	23	16				15		1							
MICHIGAN, UNIVERSITY OF	152	8		113	23	15				14		1							
MICHIGAN STATE UNIVERSITY	90	75	3	8	4	2	1			1									
MISSOURI, UNIV OF, COLUMBIA*	74	63	2	5	4	2	1			1									
MISSOURI, UNIV OF, KANS CITY	19	19																	
MONTANA STATE UNIVERSITY	19	19																	
MONTANA, UNIVERSITY OF	527	240	5	100	24	165	20	52	9			9	47	21	95	69	1	621	1
NEBRASKA, UNIVERSITY OF	355	158	5	52	23	132	15	28	9			8	47	18	93	69		438	
NEVADA, UNIVERSITY OF	1275	651	59	120	182	154	1278	250	355	289	52	88	154	82	217	106	2	771	2
NEW HAMPSHIRE, UNIVERSITY OF	496	277	29	44	62	56	431	63	115	118	9	32	53	39	110	51		290	
NEW MEXICO, UNIVERSITY OF	105	90																	
NEW MEXICO INST OF MIN & TECH	3	3																	
NEW MEXICO STATE UNIV	4	4																	
NORTH CAROLINA, UNIVERSITY OF	3	3																	
NORTH DAKOTA, UNIVERSITY OF	58	58																	
NORTHWESTERN UNIVERSITY	1238	630	122	93	8	2	367	207	94	59	2	27	15	102	55	26	20	81	55
NOTRE DAME, UNIVERSITY OF	133	62	1	1			94	59											
OHIO STATE UNIVERSITY	1953	863	264	146															
OHIO UNIVERSITY	14	1																	
OKLAHOMA, UNIVERSITY OF	96	34																	
OREGON, UNIVERSITY OF	1	1																	
PENNSYLVANIA, UNIVERSITY OF	16	10																	
PITTSBURGH, UNIVERSITY OF	5	2	3																
PRINCETON UNIVERSITY	3	3																	
PURDUE UNIVERSITY	4814	1911	38	21	1														
RICHMOND, UNIVERSITY OF	33	17																	
ROCHESTER, UNIVERSITY OF	388	183																	
RUTGERS, STATE UNIVERSITY OF	23	10																	
SOUTH CAROLINA, UNIVERSITY OF	38	25																	
SOUTHERN CALIFORNIA, UNIVERSITY OF	3048	1833	2035	835	145	115	65	37	638	237	50	22	13	3	38	23			
STANFORD UNIVERSITY	7476	2551	31	27	20	16													
TEXAS, UNIVERSITY OF	35	11																	
VANDERBILT UNIVERSITY	35	11																	
VIRGINIA, UNIVERSITY OF	6334	2129	72	64	113	98	17	16	15	14	5	5	1	1	1	1			
WASHINGTON, UNIVERSITY OF	473	268	22	16															
WISCONSIN, UNIVERSITY OF	1514	644	22	16															
WYOMING, UNIVERSITY OF	5	5																	
TOTAL ALL FIELDS	39	39	317	205	280	87	149	40	2	31	11	39	16	21	9	147	55	73	19
	18	7	3	3	15	4										109	55	31	34	19	19	5

Appendix A

continued

Institution of Doctorate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																			
NEW SCHOOL FOR SOCIAL RES N Y	1920-66																				
	1960-66																				
NEW YORK LAW SCHOOL	1920-66																				
	1960-66																				
NEW YORK UNIVERSITY	1920-66	1324	299	264	5	24	483	78	56	68	210	35	30	438	2	27	154	102		153	
	1960-66	475	140	80	5	16	97	53	33	27	131	22	26	134		9	61	41		23	
NEWARK COLLEGE OF ENGINEERING	1920-66	10									10	7	3								
	1960-66	10									10	7	3								
NORTH CAROLINA COLL AT DURHAM	1920-66																				
	1960-66																				
N C STATE UNIV AT RALEIGH	1920-66	205	57	18		1	6			1	123	21	14	344	199	4	40	80	7	14	
	1960-66	157	37	18		1	6			1	95	13	10	219	115	1	33	55	5	10	
NORTH CAROLINA, UNIVERSITY OF	1920-66	592	144	96	4	23	312	68	28	33	7			253	13	69	62	22	1	86	
	1960-66	208	59	43	4	21	90	38	16	10	6			113		35	37	17	1	23	
NORTH CAR, U OF GREENSBORO	1920-66																				
	1960-66																				
NORTH DAKOTA STATE UNIV	1920-66	9					9	2	2					15	8	1	4	1		1	
	1960-66	9					9	2	2					15	8	1	4	1		1	
NORTH DAKOTA, UNIVERSITY OF	1920-66	10					6	2	2	2	2			22		1	9	11		1	
	1960-66	7					5	2	2	2				17			6	10		1	
NORTH TEXAS STATE UNIV	1920-66	1		1																	
	1960-66																				
NORTHEASTERN UNIV MASS	1920-66	6		2	2		2	2			2		2								
	1960-66	6		2	2		2	2			2		2								
NORTHERN ILL UNIVERSITY	1920-66																				
	1960-66																				
NORTHWESTERN UNIVERSITY ILL	1920-66	1123	47	109	7	23	528	88	50	52	387	90	70	381		75	137	86	4	79	
	1960-66	452	19	39	6	19	118	53	35	23	253	60	33	98		20	41	26	3	8	
NOTRE DAME, UNIV OF, IND	1920-66	633	67	116	2	20	394	106	57		56	7	3	76	1	1	17	22	2	33	
	1960-66	241	38	51	2	18	120	46	36		32	7	3	34	1	1	10	15	2	5	
OCCIDENTAL COLLEGE CAL	1920-66																				
	1960-66																				
OHIO STATE UNIVERSITY	1920-66	2215	119	329		20	1105	175	80	89	573	134	93	1434	401	106	199	403	6	319	
	1960-66	663	41	96		15	225	110	34	45	256	39	57	391	122	42	76	97	5	49	
OHIO UNIVERSITY	1920-66	29		10	2	2	19	9	3												
	1960-66	28		10	2	2	18	8	3												
OKLAHOMA ST U OF AG & AP SCI	1920-66	282	48	15		10	69	23	15		150	21	26	244	86	19	23	40	5	71	
	1960-66	221	41	15		10	32	18	10		133	15	20	167	67	3	20	29	5	43	
OKLAHOMA, UNIVERSITY OF	1920-66	269	18	50	1	4	74	17	16	44	83	45	9	183	1	27	51	22	5	77	
	1960-66	159	5	16	1	4	34	13	13	28	76	38	9	110		15	37	12	5	41	
OREGON STATE UNIV OREG	1920-66	328	46	38		3	185	45	45	16	43	19	6	522	197	29	73	118	16	89	
	1960-66	181	31	18		1	88	18	29	16	28	14	2	281	115	6	36	71	12	41	
OREGON, UNIVERSITY OF	1920-66	149	60	23		7	60	14	19	6				93		4	61	15	4	9	
	1960-66	84	37	12		6	31	12	16	4				55		3	36	6	2	8	
PACIFIC, UNIV OF THE, CAL	1920-66	18					18	7	1												
	1960-66	18					18	7	1												
PEABODY INST OF BALTIMORE MD	1920-66																				
	1960-66																				
PENNSYLVANIA STATE UNIV	1920-66	1379	34	216	8	31	644	109	77	165	320	58	22	500	218	15	126	88		53	
	1960-66	559	28	109	8	29	172	74	60	106	144	28	16	193	75		53	44		21	
PENNSYLVANIA, UNIVERSITY OF	1920-66	1044	117	214	17	28	466	113	78	3	244	37	101	676	3	168	143	178	1	183	
	1960-66	437	34	77	16	23	162	77	46		164	20	71	155		21	59	46	1	28	
PHILA COLLEGE OF PHARM & SCI	1920-66	10					10							56		29		19		8	
	1960-66	4					4							13		11		1		1	
PITTSBURGH, UNIVERSITY OF	1920-66	819	123	131	1	30	378	85	59	13	174	46	33	360		61	105	70	5	119	
	1960-66	303	51	53	1	19	86	33	24	9	104	25	26	140		45	48	32	4	11	
POLYTECH INST OF BROOKLYN	1920-66	912	8	52		18	503	105	83		349	92	100	1			1				
	1960-66	368	8	31		12	166	81	64		163	41	53								
PORTLAND, UNIV OF, OREG	1920-66																				
	1960-66																				

Doctorates by Field

Institution of Doctorate	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS
221 NEW SCHOOL FOR SOCIAL RES N Y	202	58		54	60	26	18					18			1			1	1
28 NEW YORK LAW SCHOOL	82	28		20	29	5	8					8							
7237 NEW YORK UNIVERSITY	1411	804	120	169	237	866	147	274	191	33	45	40	128	535	267	34	2663		
2331 NEW YORK COLLEGE OF ENGINEERING	623	335	18	47	72	140	367	76	108	78	6	12	20	165	134	82	17	598	
10 NEWARK COLLEGE OF ENGINEERING																			
4 NORTH CAROLINA COLL AT DURHAM																			
625 N C STATE UNIV AT RALEIGH																			
2319 NORTH CAROLINA, UNIVERSITY OF	877																		
4 NORTH CARO U OF GREENSBORO																			
24 NORTH DAKOTA STATE UNIV																			
118 NORTH DAKOTA, UNIVERSITY OF																			
172 NORTH TEXAS STATE UNIV	127																		
6 NORTHEASTERN UNIV MASS																			
11 NORTHERN ILL UNIVERSITY																			
3621 NORTHWESTERN UNIVERSITY, ILL	1278																		
983 NOTRE DAME, UNIV OF, IND	428																		
13 OCCIDENTAL COLLEGE CAL	12																		
6941 OHIO STATE UNIVERSITY	2213																		
78 OHIO UNIVERSITY	77																		
800 OKLAHOMA ST U OF AG & AP SCI	572																		
1094 OKLAHOMA, UNIVERSITY OF	633																		
1000 OREGON STATE UNIV OREG	529																		
949 OREGON, UNIVERSITY OF	584																		
63 PACIFIC, UNIV OF THE, CAL	41																		
4 PEABODY INST OF BALTIMORE MD	4																		
4328 PENNSYLVANIA, UNIVERSITY OF	1375																		
69 PHILA COLLEGE OF PHARM & SCI	17																		
2894 PITTSBURGH, UNIVERSITY OF	912																		
913 POLYTECH INST OF BROOKLYN	368																		
72 PORTLAND, UNIV OF, OREG	58																		

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
PRINCETON UNIVERSITY	1920-66	1721	328	391	46	10	496	56	107	233	273	99	42	148		1	62	14	2	69
	1960-66	633	100	151	40	8	125	39	69	62	195	73	31	38			20	7	2	9
PROVIDENCE COLLEGE R I	1920-66	1					1	1												
	1960-66	1					1	1												
PURDUE UNIVERSITY	1920-66	2197	123	193	14	45	990	175	69	3	888	96	168	1127	329	233	232	184	17	132
	1960-66	942	62	82	14	40	295	121	48	3	500	40	113	546	165	91	131	113	15	31
RENSSELAER POLY INST N Y	1920-66	617	26	92	3	21	185	29	57	9	305	59	30							
	1960-66	356	19	63	3	19	81	22	43	9	184	33	20							
RHODE ISLAND, UNIVERSITY OF	1920-66	40					23	7	2	10	7	4	2	31	5	11	5	4		6
	1960-66	40					23	7	2	10	7	4	2	31	5	11	5	4		6
RICE UNIVERSITY TEX	1920-66	437	62	153	2	28	98	30	14	49	75	47	10	55		2	20	15		18
	1960-66	229	17	62	2	22	35	22	11	46	69	41	10	21			13	5		3
ROCHESTER, UNIVERSITY OF	1920-66	548	25	212	32	17	274	73	35	10	27	14	4	396		54	233	59		50
	1960-66	208	16	91	29	14	72	45	23	5	24	11	4	107		13	50	25		19
ROCKEFELLER UNIVERSITY N Y	1920-66	4	1	1			2	1						88		5	52	25	1	5
	1960-66	4	1	1			2	1						83		4	50	23	1	5
RUTGERS, THE STATE U, N J	1920-66	459	35	63	3	35	270	67	45	18	73		1	910	309	24	175	255	13	134
	1960-66	234	30	33	3	26	131	54	32	7	33		1	370	110	5	72	120	9	54
ST BONAVENTURE UNIVERSITY N Y	1920-66													11	1		1	5		4
	1960-66													8	1			4		3
ST JOHNS UNIVERSITY N Y	1920-66	7		2	2		5	3	1					35		1	7	16		11
	1960-66	7		2	2		5	3	1					32			7	14		11
ST LOUIS UNIVERSITY	1920-66	243	42	71	3	14	86	20	10	44				169		13	92	38		26
	1960-66	76	17	23	3	10	18	9	3	18				56		10	37	6		3
ST MARYS COLLEGE IND	1920-66																			
	1960-66																			
ST MARYS SEM & UNIVERSITY MD	1920-66																			
	1960-66																			
ST STEPHENS COLLEGE MASS	1920-66																			
	1960-66																			
SMITH COLLEGE MASS	1920-66	2		1			1	1						5				3		2
	1960-66																			
SOUTH CAROLINA, UNIVERSITY OF	1920-66	46	6	7	3		31	14	10		2	2		7	2		1			4
	1960-66	40	6	7	3		25	12	10		2	2		5	1		1			3
SOUTH DAKOTA STATE UNIV	1920-66													27	25		1			1
	1960-66													26	24		1			1
SOUTH DAKOTA, UNIVERSITY OF	1920-66													7		2	3	1		1
	1960-66													7		2	3	1		1
SOUTHERN CALIF, UNIVERSITY OF	1920-66	261	24	40	1		116	13	20	32	49	7	18	242		19	113	59	4	47
	1960-66	116	12	15	1		32	7	12	18	39	3	15	77		6	35	22	4	10
SOUTHERN ILLINOIS UNIV	1920-66	2					2	1						16			3	7		6
	1960-66	2					2	1						16			3	7		6
SOUTHERN METHOD UNIVERSITY TEX	1920-66																			
	1960-66																			
SOUTHERN MISS, UNIVERSITY OF	1920-66																			
	1960-66																			
SPRINGFIELD COLLEGE MASS	1920-66																			
	1960-66																			
STANFORD UNIVERSITY CAL	1920-66	1935	198	242	37	29	383	76	26	219	893	13	298	447	3	13	109	112	9	201
	1960-66	1003	129	122	34	27	76	54	16	100	576	13	167	120		6	47	31	5	31
STEVENS INST OF TECHNOLOGY N J	1920-66	95	8	29	5	4	26	11	13		32	12	2							
	1960-66	91	8	28	5	4	25	11	12		30	12	2							
STONY BROOK, SUNY AT	1920-66	1					1		1											
	1960-66	1					1		1											
SYRACUSE UNIVERSITY	1920-66	401	51	102	8	32	122	16	20	17	109	24	55	161	22	2	22	56	2	57
	1960-66	177	20	53	8	23	28	6	13	1	75	8	42	48			6	31	1	10
TEMPLE UNIVERSITY PA	1920-66	134		46	1	21	88	36	21					46		26	13	7		
	1960-66	70		27	1	15	43	23	17					31		17	9	5		
TENNESSEE, UNIVERSITY OF	1920-66	293	32	76	4	10	133	23	32	4	48	27	4	179	5	22	58	42	6	46
	1960-66	149	18	42	4	10	55	14	23	3	31	14	4	106	5	13	32	21	4	31

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Doctorate
587	158	13	27	167	208	851	153	245	186	110	82		73	39		31		3346	PRINCETON
229	65	3	22	57	80	261	68	59	41	27	28		37	33		29		1194	UNIVERSITY
																		1	PROVIDENCE
																		1	COLLEGE R I
747	533		29	183		90						90		31	7		109	4301	PURDUE
335	212		24	97		52						52		20	7		84	1979	UNIVERSITY
														3	3			620	RENSSELAER
														3	3			359	POLY INST N Y
																		71	RHODE ISLAND,
																		71	UNIVERSITY OF
9	1			7	1	53	15	21	14		3							554	RICE
8	1			7		39	10	15	11		3							297	UNIVERSITY TEX
163	153		1	9		331	51	37	2		7		234				20	1458	ROCHESTER,
71	61		1	9		142	30	34			7		71				20	548	UNIVERSITY OF
																		92	ROCKEFELLER
																		87	UNIVERSITY N Y
81	35			26	20	51	17	26	8					18			258	1777	RUTGERS, THE
60	30			19	11	36	15	13	8					18			144	862	STATE U, N J
1			1			18					18							30	ST BONAVENTURE
						5					5							13	UNIVERSITY N Y
39	26		9		4	114	45	64	1		4			2			49	246	ST JOHNS
33	25		4		4	44	21	19			4						36	152	UNIVERSITY N Y
124	17		36	47	18	271	101	41	9	39	81			22	21	1	91	920	ST LOUIS
51	16		20	2	7	113	44	13	7	13	36			10	10		54	360	UNIVERSITY
														65		65		65	ST MARYS
														17		17		17	COLLEGE IND
						2	1		1					9		9		11	ST MARYS SEM &
																			UNIVERSITY MD
						1					1							1	ST STEPHENS
						1					1							1	COLLEGE MASS
1	1					4		1	2		1							12	SMITH
																			COLLEGE MASS
1	1					34	20	14									27	115	SOUTH CAROLINA,
1	1					16	10	6									13	75	UNIVERSITY OF
5			1	4														32	SOUTH DAKOTA
4			1	3														30	STATE UNIV
																	30	37	SOUTH DAKOTA,
																	29	36	UNIVERSITY OF
613	245	9	112	107	118	648	132	92	84	8	53	163	109	157	37	115	1088	3009	SOUTHERN CALIF,
248	93		34	51	50	259	38	48	37	2	19	51	61	58	34	21	481	1239	UNIVERSITY OF
43	25	1	1	1	15	25					1	24		5	1		59	150	SOUTHERN
43	25	1	1	1	15	24					1	23		5	1		59	149	ILLINOIS UNIV
9				9														9	SOUTHERN METHOD
9				9														9	UNIVERSITY TEX
5	5					1						1		1			35	42	SOUTHERN MISS,
5	5					1						1		1			35	42	UNIVERSITY OF
																	48	48	SPRINGFIELD
																	29	29	COLLEGE MASS
637	292	19	51	147	114	778	231	224	139	12	26	111	24	104	86		1227	5128	STANFORD
245	109	16	21	58	31	280	58	78	41	5	21	60	12	67	55		294	2009	UNIVERSITY CAL
																		95	STEVENS INST OF
																		91	TECHNOLOGY N J
																		1	STONY BROOK,
																		1	SUNY AT
498	160	9	27	77	138	177	55	53	26	1	14	12	5	19	4	2	303	1559	SYRACUSE
214	55	5	11	30	65	87	37	21	13	1	2	3	2	14	1	1	140	680	UNIVERSITY
90	89				1	6		6						165		164	431	872	TEMPLE
51	51					3		3						28		28	186	369	UNIVERSITY PA
127	106		8	4	2	34	3	30			1			8			223	864	TENNESSEE,
66	48		8	4	1	19	3	15			1			7			143	490	UNIVERSITY OF

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
TEXAS A & M	1920-66	320	3	45	1	6	66	19	14	59	147	25	32	384	152	21	102	79	6	24
UNIVERSITY	1960-66	226	3	32	1	6	39	15	11	44	108	19	17	199	74	6	62	36	6	15
TEXAS CHRISTIAN	1920-66	10	3	7		3														
UNIVERSITY	1960-66	10	3	7		3														
TEXAS TECHNOL	1920-66	19					16	5	3	1	2		1	2			2			
COLLEGE	1960-66	15					13	4	2		2		1	2			2			
TEXAS,	1920-66	1229	136	203		29	489	135	76	79	322	86	61	472		15	99	139	6	213
UNIVERSITY OF	1960-66	559	71	80		22	156	75	34	47	205	46	39	223		5	51	67	5	95
TEXAS WOMANS	1920-66	9					1				8			11		10	1			
UNIVERSITY	1960-66													2		1	1			
TOLEDO,	1920-66																			
UNIVERSITY OF	1960-66																			
TUFTS UNIV	1920-66	15		8	4	4	7	3	3					49		14	33	1		1
MASS	1960-66	15		8	4	4	7	3	3					25		3	20	1		1
TULANE UNIV	1920-66	156	49	7		6	89	11	11	1	10	8		203		43	59	60		41
OF LOUISIANA	1960-66	77	26	7		6	33	7	10	1	10	8		120		31	36	30		23
TULSA,	1920-66																			
UNIVERSITY OF	1960-66																			
UNION COLLEGE &	1920-66	7									7		7	5		2	1	2		
UNIVERSITY N Y	1960-66													3		1		2		
U S NAVAL POST-	1920-66	16		3		2					13		9							
GRAD SCH CAL	1960-66	15		3		2					12		8							
UPSTATE MEDICAL	1920-66													16		6	7	2		1
CENTER N Y	1960-66													15		6	6	2		1
UTAH STATE UNIV	1920-66	35		4			5	1	1	1	25			117	74	4	12	11	7	9
OF AG & AP SCI	1960-66	28		4			5	1	1	1	18			91	59		11	8	4	9
UTAH,	1920-66	474	29	65	10	15	154	32	51	65	161	29	28	163		27	39	64	3	30
UNIVERSITY OF	1960-66	264	25	35	7	15	69	18	36	40	95	23	19	92		16	17	40	3	16
VANDERBILT	1920-66	226	13	75	9	5	124	29	21		14	7	4	115		12	45	26	1	31
UNIV TENN	1960-66	110	7	42	8	5	47	21	14		14	7	4	45		7	22	8		8
VERMONT, U OF	1920-66	9					9	6	3					15		2	10	1		2
& ST AG COLL	1960-66	9					9	6	3					14		2	9	1		2
VIRGINIA POLY-	1920-66	223	59	14	1	5	39	15	3	13	98	44	1	94	34	1	30	14	2	13
TECHNIC INST	1960-66	148	41	14	1	5	21	12	3	10	62	18	1	73	29		24	10	1	9
VIRGINIA,	1920-66	538	55	215	1	38	245	37	26	1	22	6	1	124	1	2	10	18		93
UNIVERSITY OF	1960-66	161	22	71	1	31	46	20	13		22	6	1	25		1	6	7		11
WAKE FOREST	1920-66													3		1		2		
COLLEGE N C	1960-66													3		1		2		
WASHINGTON	1920-66	144	11	26		7	96	23	16	10	1			352	181	24	14	63	3	67
STATE UNIV	1960-66	77	11	18		6	42	17	10	5	1			145	64	14	9	33	1	24
WASHINGTON	1920-66	454	34	144	7	15	123	19	15	32	121	36	27	277	6	15	47	62		147
UNIVERSITY MO	1960-66	197	17	48	5	14	38	13	12	19	75	15	13	50		4	11	8		27
WASHINGTON,	1920-66	909	87	150	25	10	420	74	68	103	149	78	28	444	75	96	106	71	7	89
UNIV OF, WASH	1960-66	435	45	73	24	9	154	49	46	55	108	38	27	191	34	27	66	31	7	26
WAYNE STATE	1920-66	246	20	19	5	9	195	92	31		12	6		84		1	65	16		2
UNIV MICH	1960-66	131	17	18	5	8	84	44	12		12	6		51			35	14		2
WEST VIRGINIA	1920-66	114	3	10		3	58	7	8	5	38	23		97	38	10	22	12		15
UNIVERSITY	1960-66	39		9		3	12	5	7	2	16	5		52	12	10	16	10		4
WESTERN RESERVE	1920-66	257	10	9		2	237	24	35	1				193		18	94	55		26
UNIV OHIO	1960-66	68	10	9		2	48	19	25	1				66		9	26	24		9
WESTMINSTER	1920-66																			
THEOL SEM PA	1960-66																			
WICHITA STATE	1920-66																			
UNIVERSITY	1960-66																			
WISCONSIN,	1920-66	2730	244	394	33	22	1262	199	167	274	556	159	120	3349	931	314	753	678	15	658
UNIVERSITY OF	1960-66	877	107	132	32	17	278	90	87	110	250	62	51	921	289	111	194	184	15	130
WOMANS MED	1920-66													3		2		1		
COLLEGE OF PA	1960-66													3		2		1		
WOODSTOCK	1920-66																			
COLLEGE MD	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES						ARTS AND HUMANITIES							PROFESSIONAL FIELDS				EDUCATION	TOTAL ALL FIELDS	Institution of Doctorate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY						
30			30														11	745	TEXAS A & M
18			18														11	454	UNIVERSITY
13	13				4		4											27	TEXAS CHRISTIAN
13	13				4		4											27	UNIVERSITY
17	17				34	14	20										73	145	TEXAS TECHNOL
15	15				24	10	14										43	99	COLLEGE
512	285	1	37	113	72	667	246	229	150	11	23	1	7	186	184	1	592	3658	TEXAS,
212	126	1	18	41	22	246	51	89	80	5	13	1	7	96	96		216	1552	UNIVERSITY OF
1	1					4							4	36			27	88	TEXAS WOMANS
1	1					2							2	29			20	54	UNIVERSITY
																	14	14	TOLEDO,
																	14	14	UNIVERSITY OF
133	13			16	104	6	2			4				3				206	TUFTS UNIV
67	13			11	43	6	2			4				1				114	MASS
98	47	4	10	22	11	184	40	58	53	2	13	16	2					641	TULANE UNIV
66	20	4	5	22	11	129	28	42	27	1	13	16	2					392	OF LOUISIANA
																	56	56	TULSA,
																	44	44	UNIVERSITY OF
																		12	UNION COLLEGE &
																		3	UNIVERSITY N Y
																		16	U S NAVAL POST-
																		15	GRAD SCH CAL
																		16	UPSTATE MEDICAL
																		15	CENTER N Y
3	1		2														36	191	UTAH STATE UNIV
2	1		1														28	149	OF AG & AP SCI
141	102	3	11	4	19	72	10	16	7	2	2	24	11	1	1		132	983	UTAH,
72	56	3	4	4	5	40	5	11	3	2	2	12	5	1	1		78	547	UNIVERSITY OF
170	91		29	41	9	269	93	147	5	10	14			84		84		864	VANDERBILT
93	56		7	22	8	76	22	38	5	2	9			54		54		378	UNIV TENN
																		24	VERMONT, U OF
																		23	& ST AG COLL
4				4														321	VIRGINIA POLY-
4				4														225	TECHNIC INST
246	43		10	143	50	294	99	111	36	7	40	1		4			158	1364	VIRGINIA,
92	14			44	34	82	44	24	4	1	9			3			90	453	UNIVERSITY OF
																		3	WAKE FOREST
																		3	COLLEGE N C
98	52		37	9		14	12	2						1			157	766	WASHINGTON
61	40		15	6		8	6	2						1			109	401	STATE UNIV
229	126	3	35	24	19	96	22	28	19	14	4		9	16	15		104	1176	WASHINGTON
94	52		9	7	11	44	3	18	10	1	3		9	15	15		38	438	UNIVERSITY MO
462	163	22	88	55	65	457	90	214	95	6	22	22	8	102	92		222	2596	WASHINGTON,
221	96	10	33	27	25	229	50	91	46	4	11	20	7	74	73		47	1197	UNIV OF, WASH
91	69		10	12		86	5	25	5			51					382	889	WAYNE STATE
86	65		9	12		82	5	24	5			48					235	585	UNIV MICH
4	4					20	18	1					1				28	263	WEST VIRGINIA
4	4					6	5						1				23	124	UNIVERSITY
279	229	1	5	14	5	286	87	96	38	1	2	38	23	16		5	241	1272	WESTERN RESERVE
128	88		2	13	4	104	40	32	13			14	5	13		5	152	531	UNIV OHIO
														6		6		6	WESTMINSTER
														6		6		6	THEOL SEM PA
						1						1					1	2	WICHITA STATE
						1						1					1	2	UNIVERSITY
1371	206	22	201	683	159	1747	512	490	350	43	50	269	27	156	76		720	10073	WISCONSIN,
374	93	16	33	160	36	570	155	208	76	9	18	87	14	87	46		314	3143	UNIVERSITY OF
																		3	WOMANS MED
																		3	COLLEGE OF PA
														21		21		21	WOODSTOCK
														6		6		6	COLLEGE MD

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WORCESTER POLYTECH INST	1920-66	20		4		1	6	2	3		10	8	2							
	1960-66	18		2		1	6	2	3		10	8	2							
WYOMING, UNIVERSITY OF	1920-66	47					21	2	8	25	1			42	27	1	2		8	4
	1960-66	30					12	2	7	17	1			28	15		2		7	4
YALE UNIVERSITY CONN	1920-66	1800	150	447	25	11	667	133	115	179	357	92	81	920	118	139	205	175	11	272
	1960-66	494	58	147	21	10	130	54	54	42	117	27	27	201	32	19	69	35	3	43
YESHIVA UNIVERSITY N Y	1920-66	18	15	3	1									18		4	5	3		6
	1960-66	18	15	3	1									18		4	5	3		6
UNKNOWN AND DEFUNCT	1920-66	1					1		1					4		1	3			
	1960-66	1					1		1					2			2			
TOTAL	1920-66	75804	7747	13948	1003	1703	30190	6384	4313	5334	18585	3665	3409	43209	8553	4662	10021	9339	460	10174
	1960-66	30644	3535	5615	874	1400	9022	3747	2561	2155	10317	1857	2098	15475	3451	1593	4117	3522	313	2479

Institution of Doctorate	Doctorates by Field: SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS
WORCESTER																		20	18
POLYTECH INST																			
WYOMING,	5	5															205	299	184
UNIVERSITY OF	4	4															122		
YALE UNIVERSITY	943	293	100	141	188	211	1950	356	678	390	149	234	39	97	664	423	368	6645	1772
CONN	304	83	24	33	81	80	597	104	151	132	37	106	20	47	176	126			
YESHIVA	113	110		1	1		35	22	1	4	6	2			37	37	54	275	191
UNIVERSITY N Y	83	82			1		18	10	1	1	5	1			11	11	43		
UNKNOWN AND	2	2					2		1	1					124	122	3	136	23
DEFUNCT	2	2					2		1	1					13	11	3		
TOTAL	38268	15603	1552	4210	9310	5642	37003	9934	9971	6548	1688	3256	2833	2236	9081	3012	3772	7866	241231
	14871	6443	610	1422	3342	2187	12973	3273	3578	2151	443	1032	1324	1081	3544	1612	1521	5356	92863

APPENDIX B

Number of Doctorates by Institution of Baccalaureate, by Field, 1920 - 1966 and 1960 - 1966

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
ABILENE CHRIS-	1920-66	10	2	2			5	3			1	1		16	2	1	11	1			1
TIAN COLL TEX	1960-66	7	2	1			4	3						11	2		7	1			1
ADAMS STATE	1920-66	4					4	1	1					1							1
COLLEGE COLO	1960-66	3					3	1	1					1							1
ADELPHI	1920-66	13	1				12	2	2					13		1	5	3			4
UNIVERSITY N Y	1960-66	2					2	1						8			2	3			3
ADRIAN COLLEGE	1920-66	10	1				8	1	1	1				9	1			3	2		3
MICH	1960-66	1					1		1					2					1		1
AGNES SCOTT	1920-66	13	2				11		1					14		2	5	3			4
COLLEGE GA	1960-66	4					4							3		1	1	1			
AGRIC MECH AND	1920-66	2	1				1							5	2			1			2
NORMAL COL ARK	1960-66	1	1											1				1			
AGRIC & TECH	1920-66	5		2		1	3							13	9		3	1			
COLLEGE OF N C	1960-66	4		1		1	3							6	2		3	1			
AIR FORCE INST	1920-66	2		1							1										
OF TECH OHIO	1960-66	1									1										
AKRON,	1920-66	93	4	16		2	64	23	6		9	1	1	27	1	2	8	8	1		7
UNIVERSITY OF	1960-66	31	2	5		2	20	15	3		4		1	9	1		4	3			1
ALABAMA AGRIC	1920-66	1					1		1					2	2						
& MECH COLL	1960-66	1					1		1					1	1						
ALABAMA	1920-66																				
COLLEGE	1960-66																				
ALABAMA STATE	1920-66																				
COLLEGE	1960-66																				
ALABAMA,	1920-66	145	19	35	2	8	44	4	9	13	34	7	9	75	3	6	12	24	1		29
UNIVERSITY OF	1960-66	68	8	18	1	7	17	4	6	4	21	6	4	29		4	5	9			11
ALASKA,	1920-66	17	2	2						8	5		1	8	2	1	1	1	1		2
UNIVERSITY OF	1960-66	10	1	2						4	3		1	7	2	1	1	1			2
ALBANY STATE	1920-66																				
COLLEGE GA	1960-66																				
ALBANY,	1920-66	57	11	4		1	40	10	8	1	1		1	31		2	11	8			10
SUNY AT	1960-66	26	5	1			19	8	7		1		1	16			9	4			3
ALBERTUS MAGNUS	1920-66	4	1				3		1					7		1	2	1			3
COLLEGE CONN	1960-66	3	1				2		1					2			1	1			
ALBION COLLEGE	1920-66	50	6	18			22	8	4	1	3	1		31	1	3	2	10	1		14
MICH	1960-66	13		2			10	6	4		1			12		1	2	4			5
ALBRIGHT	1920-66	36	2	3		1	29	9	2		2			20	1	1	4	8	1		5
COLLEGE PA	1960-66	15	2	2		1	10	8			1			3		1	1	1			
ALCORN AGRIC &	1920-66	1					1							4	2		1	1			
MECH COLL MISS	1960-66	1					1							1			1				
ALDERSON-	1920-66	2	1				1							2			1	1			
BROADDUS COLL	1960-66	2	1				1							2			1	1			
ALFRED	1920-66	109	7	9	1	4	33	6	4	3	57		1	20	1		8	4			7
UNIVERSITY N Y	1960-66	49	3	7	1	4	9	4	2	1	29		1	6	1		2	1			2
ALLEGHENY	1920-66	96	6	19		3	61	12	6	9	1			48	3	3	11	21			10
COLLEGE PA	1960-66	27	3	3		3	17	8	4	3	1			8			3	4			1
ALLEN	1920-66	1	1																		
UNIVERSITY S C	1960-66																				
ALLIANCE	1920-66	2		1		1	1							1			1				
COLLEGE PA	1960-66	1		1		1															
ALMA COLLEGE	1920-66	25	1	1			23	7	1					22	2	1	7	6			6
MICH	1960-66	5					5	2	1					5	1		2				2
ALMA WHITE	1920-66																				
COLLEGE N J	1960-66																				
ALVERNO	1920-66	3	1	1			1							1			1				
COLLEGE WISC	1960-66	2	1	1										1			1				
AMER CONSERV	1920-66																				
OF MUSIC ILL	1960-66																				
AMERICAN INTER-	1920-66	11	1	2		1	8	2						11		2	1	7			1
NATL COLL MASS	1960-66	2	1	1										4		1	1	2			

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
11	3	1	1	2	2	37	5	10	2	1	2	15	2	18	2	16	43	135	ABILENE CHRIS-
4	2	1		1		14		7			2	4	1	8	1	7	20	64	TIAN COLL TEX
5			2	1	1	4	1					2	1				21	35	ADAMS STATE
2			1	1		3	1					2					12	21	COLLEGE COLO
35	29		2		2	21	4	3	6		3	2		2	1	1	28	112	ADELPHI
16	14				1	7	1	1	3			2		1	1		5	39	UNIVERSITY N Y
3	2		1			4		1			1	2		4		4	12	42	ADRIAN COLLEGE
1			1			1						1		2		2	5	12	MICH
4	3				1	38	6	17	9	5			1	1		1	5	75	AGNES SCOTT
1	1					14		8	2	3			1				3	25	COLLEGE GA
5	1		2	1	1	1								2	1		18	33	AGRIC MECH AND
3	1			1	1									1			12	18	NORMAL COL ARK
8				4	2	3		3						1			17	47	AGRIC & TECH
2				1										1			9	22	COLLEGE OF N C
														2	2			4	AIR FORCE INST
														2	2			3	OF TECH OHIO
45	19	2	2	10	10	41	6	12	10	1	2	9		5	2	2	32	243	AKRON,
14	5	1		4	2	12		5	2	1	1	3		2	1	1	17	85	UNIVERSITY OF
1	1					1						1		1	1		7	13	ALABAMA AGRIC
						1						1					3	6	& MECH COLL
7	3			2	1	8	2	3	2			1		1			11	27	ALABAMA
6	3			2	1	3		1	1			1		1			6	16	COLLEGE
3	1		2			1							1	1			22	27	ALABAMA STATE
1			1			1							1	1			6	9	COLLEGE
84	35		11	16	19	117	46	36	21		3	7	2	33	24	3	133	587	ALABAMA,
33	19		4	2	5	34	12	11	3		1	6	1	15	12	2	53	232	UNIVERSITY OF
8	1	5		1		2		1	1								1	36	ALASKA,
5	1	2		1													1	23	UNIVERSITY OF
																	2	2	ALBANY STATE
																	2	2	COLLEGE GA
34	18		3	5	5	69	17	29	9	3	1	7	2	9	5		169	369	ALBANY,
11	4		2	1	3	34	10	16	3	1		3	1	6	4		57	150	SUNY AT
1				1		6		1	3	1	1			2		1	5	25	ALBERTUS MAGNUS
1				1		3		1		1	1			1			2	12	COLLEGE CONN
31	8	1	3	7	7	43	6	6	3	2	6	16	4	8	1	7	45	208	ALBION COLLEGE
7	3				2	9	1	1	1		1	2	3				19	60	MICH
13	5		2	3	1	6	1	1	3			1		10		10	22	107	ALBRIGHT
8	3		1	2	1	2			1			1		3		3	3	34	COLLEGE PA
2	1			1		2	1					1		1		1	10	20	ALCORN AGRIC &
1	1					1						1					6	10	MECH COLL MISS
1			1			3	2					1					2	10	ALDERSON-
1			1			2	1					1					2	9	BROADDUS COLL
12	8		1	1	2	15	5		3	1	1	2	3	2		1	31	189	ALFRED
5	4				1	4	2			1		1					9	73	UNIVERSITY N Y
47	32	1	1	3	8	58	15	23	8	1	5	3	1	10		9	48	307	ALLEGHENY
15	13				2	20	5	9	3		2		1	1		1	14	85	COLLEGE PA
						1	1										6	8	ALLEN
																	3	3	UNIVERSITY S C
1				1		1	1											5	ALLIANCE
						1	1											2	COLLEGE PA
10	5		1		2	11	2	5	2		1		1	3	2	1	16	87	ALMA COLLEGE
6	4					2	1				1			2	1	1	10	30	MICH
																	2	2	ALMA WHITE
																	1	1	COLLEGE N J
1			1			6	1	2	1		1		1				3	14	ALVERNO
1			1			5	1	2	1		1						2	11	COLLEGE WISC
1	1					15						1	14				7	23	AMER CONSERV
1	1					5							5				4	10	OF MUSIC ILL
11	6		2	2		5	1	1	1		1		1	4	2	1	13	55	AMERICAN INTER-
4	2			1		4	1	1	1		1			2	1		8	24	NATL COLL MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
AMERICAN	1920-66	22	4	3			12	1	2	2	1			18	1	1	4	6		6
UNIVERSITY D C	1960-66	8	2	2			1	1		2	1			2				2		
AMHERST	1920-66	193	19	58	3	7	78	19	8	27	11	2	1	71	3	6	13	23	1	25
COLLEGE MASS	1960-66	77	6	25	2	7	23	14	5	15	8	2	1	35	2		9	13		11
ANDERSON	1920-66	1					1	1						1			1			
COLLEGE IND	1960-66	1					1	1												
ANDOVER NEWTON	1920-66																			
THEOL SCH MASS	1960-66																			
ANDREWS	1920-66	24	5	7		2	12	2	1					22		1	10	1		10
UNIV MICH	1960-66	7	4	2		2	1		1					8			5	1		2
ANNA MARIA COLL	1920-66													1			1			
FOR WOMEN MASS	1960-66													1			1			
ANNHURST	1920-66																			
COLLEGE CONN	1960-66																			
ANTIOCH COLLEGE	1920-66	127	16	31	3	5	60	11	6	11	9		2	40	3	3	22	3	1	8
OHIO	1960-66	46	11	13	3	4	14	7	2	4	4		1	16	2	1	5	2	1	5
APPALACHIAN ST	1920-66	3	1	1						1				7			2		1	4
TEACH COLL N C	1960-66	2		1						1				6			1		1	4
AQUINAS	1920-66	10	1				9	4						3				2		1
COLLEGE MICH	1960-66	8	1				7	4						2				1		1
AQUINAS INST OF	1920-66																			
PHIL & TH ILL	1960-66																			
ARIZONA STATE	1920-66	31	5	2		1	22	12	3	1	1			32	10	2	3	8	1	8
UNIVERSITY	1960-66	21	4	2		1	14	11	1		1			23	6	2	3	5	1	6
ARIZONA,	1920-66	166	16	22	4	3	66	10	10	21	41	1	14	118	34	7	21	22		34
UNIVERSITY OF	1960-66	75	10	10	3	3	16	6	5	10	29		10	46	11	3	9	8		15
ARKANSAS AGRIC	1920-66	2	1				1							7	1			3		3
AND MECH COLL	1960-66													5	1			2		2
ARKANSAS	1920-66	7					7	1												
COLLEGE	1960-66	1					1	1												
ARKANSAS POLY-	1920-66													2	1					1
TECHNIC COLL	1960-66													1						1
ARKANSAS STATE	1920-66	13		1			11	3	2		1			7	3	1		3		
COLLEGE	1960-66	5					5	3	2					4	2			2		
ARKANSAS STATE	1920-66	15	5	2			8	3	1					3			2	1		
TEACHERS COLL	1960-66	5	3				2	1	1					2			1	1		
ARKANSAS,	1920-66	159	16	20	2	5	63	6	8	9	51	20	10	170	80	13	16	35	1	25
UNIVERSITY OF	1960-66	60	5	8	1	3	7		3	5	35	11	9	80	48	5	10	14	1	2
ARMSTRONG	1920-66																			
SCH OF BUS CAL	1960-66																			
ASBURY	1920-66	3		1			2							10		1	4		1	4
COLLEGE KY	1960-66	1					1							9		1	4		1	3
ASHLAND	1920-66	12	2				10	1						5			3	1		1
COLLEGE OHIO	1960-66	2					2	1						1			1			
ASSUMPTION	1920-66	3					2				1			2			1			1
COLLEGE MASS	1960-66													1			1			
ATHENAEUM	1920-66	1		1										2		1	1			
OF OHIO, THE	1960-66													1			1			
ATHENS	1920-66																			
COLLEGE ALA	1960-66																			
ATLANTA	1920-66																			
LAW SCHOOL	1960-66																			
ATLANTA	1920-66	2	1				1													
UNIVERSITY	1960-66																			
ATLANTIC CHRIST	1920-66													2	1			1		
COLLEGE N C	1960-66													1				1		
ATLANTIC UNION	1920-66	4	1	2			1							1			1			
COLLEGE MASS	1960-66													1			1			
AUBURN	1920-66	156	16	30		6	52	15	3	1	57	13	9	165	64	18	21	40		22
UNIVERSITY ALA	1960-66	77	10	10		4	15	8	1	1	41	5	7	63	21	5	8	16		13

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
55	13		4	14	22	26	11	8	2		1	1	3	10	2	4	13	144	AMERICAN
26	7			8	10	6	3	2				1		6	2	2	7	55	UNIVERSITY D C
116	30	4	6	49	22	226	82	85	24	7	12	1	9	27	8	9	34	667	AMHERST
38	12	2	2	15	6	78	29	34	3	2	5		5	2	1	1	7	237	COLLEGE MASS
5	2		1		1	5	1				2	1	1	12	2	9	19	43	ANDERSON
4	2		1			1					1			8	1	6	11	25	COLLEGE IND
						2			1		1			1		1		3	ANDOVER NEWTON THEOL SCH MASS
3	2		1			25	7	1	5	2		6	3	6	1	3	39	119	ANDREWS
2	2					11	2	1	1	2		4	1	3		2	14	45	UNIV MICH
																		1	ANNA MARIA COLL
																		1	FOR WOMEN MASS
1			1			3		3									1	5	ANNHURST
1			1			2		2									1	4	COLLEGE CONN
122	70	8	12	15	12	28	8	7	2	1	3	6	1	6	3	1	35	358	ANTIOCH COLLEGE
58	30	4	8	3	8	15	5	3	1		1	4	1	3	1	1	18	156	OHIO
2				1		9	7	2						1		1	35	57	APPALACHIAN ST
						7	5	2									19	34	TEACH COLL N C
4			2		1	4	1	2	1								1	22	AQUINAS
4			2		1	4	1	2	1								1	19	COLLEGE MICH
						2		1			1							2	AQUINAS INST OF
						2		1			1							2	PHIL & TH ILL
24	15	1		6		21	5	6	2		2	6		3		3	79	190	ARIZONA STATE
18	10	1		5		12	3	3	1		2	3		1		1	42	117	UNIVERSITY
102	41	26	2	17	9	56	15	9	13	2	6	8	3	11	2	5	52	505	ARIZONA,
42	23	6	1	6	4	22	7	4	3	2	1	3	2	6	1	2	26	217	UNIVERSITY OF
2			1	1										2	2		12	25	ARKANSAS AGRIC
2			1	1										2	2		7	16	AND MECH COLL
3	2		1			5		5						2			5	22	ARKANSAS
						1		1						1			4	7	COLLEGE
1			1			1		1						1		1	11	16	ARKANSAS POLY-
1			1			1		1									11	14	TECHNIC COLL
8	1		1	6		7		6				1		3	3		23	61	ARKANSAS STATE
6	1			5		4		3				1		3	3		14	36	COLLEGE
6	2			3		6	3	3						2	2		59	91	ARKANSAS STATE
4	2			2		2	1	1						2	2		28	43	TEACHERS COLL
77	24		2	41	6	64	23	23	9	1	3	4		37	18	2	78	585	ARKANSAS,
26	7		1	16	1	28	7	13	5		1	2		20	12		40	254	UNIVERSITY OF
						1			1					1	1		1	3	ARMSTRONG
														1	1			1	SCH OF BUS CAL
13	7	1	4		1	30	8	5	5	1	4	5	2	36	1	34	25	117	ASBURY
2	2					8	5		2			1		9	1	7	8	37	COLLEGE KY
5	1		3		1	5		1	1		1	2		3	1	2	17	47	ASHLAND
														1	1		7	11	COLLEGE OHIO
2				2		12	3	2	6	1				1				20	ASSUMPTION
2				2		2			2					1				6	COLLEGE MASS
1				1		5	4				1			9		9	4	22	ATHENAEUM
1				1		3	2				1			1		1	3	9	OF OHIO, THE
						2			2								2	4	ATHENS
						1			1								1	2	COLLEGE ALA
1	1																	1	ATLANTA
1	1																	1	LAW SCHOOL
2				2		2	1	1									4	10	ATLANTA UNIVERSITY
2			2			3	2	1						3	1	2	13	23	ATLANTIC CHRIST
						1		1						3	1	2	3	8	COLLEGE N C
2			1	1		8	4	1	1			1	1	1	1		6	22	ATLANTIC UNION
2			1	1		5	2	1	1				1				5	13	COLLEGE MASS
33	15	1	1	12	3	27	14	8	1			3	1	17	10	1	79	477	AUBURN
20	9	1	1	8	1	12	4	3	1			3	1	12	6	1	34	218	UNIVERSITY ALA

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																			
AUGSBURG	1920-66	5		1			2		1	1	1		1	5	2		1				2
COLLEGE MINN	1960-66	4		1			1		1	1	1		1	2	1		1				
AUGUSTANA	1920-66	96	4	1			54	15	13	35	2	1		27	2		10	4	1		10
COLLEGE ILL	1960-66	31	1				18	8	9	11	1	1		11	1		6	1			3
AUGUSTANA	1920-66	17		3			14	3	5					13			5	3			5
COLLEGE S D	1960-66	7		1			6	2	4					11			4	2			5
AURORA	1920-66	5	1	1			3							6			1	1			4
COLLEGE ILL	1960-66	2	1	1										1							1
AUSTIN	1920-66	20	1	2		1	17	7	2					11			4	2			5
COLLEGE TEX	1960-66	8		1		1	7	3	2					6			3	1			2
AUSTIN PEAY	1920-66	5		1		1	4	1	1					6			2	1	1		2
STATE COL TENN	1960-66	5		1		1	4	1	1					4			1	1	1		1
AUSTIN PRESBYT	1920-66													1				1			
THEOL SEM	1960-66																				
AVILA	1920-66																				
COLLEGE MO	1960-66																				
AZUSA	1920-66																				
COLLEGE CAL	1960-66																				
BABSON INST OF	1920-66																				
BUS ADMIN MASS	1960-66																				
BAKER	1920-66	28	3	2			23	4	3					8	1		1	3			3
UNIVERSITY KAN	1960-66	8					8	3	3					2				2			
BALDWIN-WALLACE	1920-66	35	4	4			24	2	1		3	1		14		2	2	5			5
COLLEGE OHIO	1960-66	8	2				5	2	1		1			6		2		2			2
BALL STATE	1920-66	15	6	2			6			1				12	2	2	1	2	1		4
UNIVERSITY IND	1960-66	2	2											3					1		2
BALTIMORE,	1920-66																				
UNIVERSITY OF	1960-66																				
BANGOR THEOL	1920-66																				
SEMINARY ME	1960-66																				
BAPTIST BIBLE	1920-66																				
SEMINARY N Y	1960-66																				
BARAT COLL OF	1920-66	1					1							2			1				1
SACRED HT ILL	1960-66													1			1				
BARD	1920-66	6	3				3		1					12			6	2			4
COLLEGE N Y	1960-66													4			2	2			
BARNARD	1920-66	58	12	11			30	9	7	5				80		3	39	17			21
COLLEGE N Y	1960-66	19	7	4			7	4	3	1				20		1	11	6			2
BARRINGTON	1920-66																				
COLLEGE R I	1960-66																				
BARRY	1920-66													1							1
COLLEGE FLA	1960-66													1							1
BATES	1920-66	75	5	9			50	11	5	9	2	1		69	1	7	20	10	2		29
COLLEGE ME	1960-66	16					13	7	3	3				14		1	9	1			3
BAYLOR	1920-66	88	11	20		4	48	5	10	8	1			52	3	6	16	6			21
UNIVERSITY TEX	1960-66	33	6	10		3	13	4	6	3	1			12	1	2	6	1			2
BEAVER	1920-66													1			1				
COLLEGE PA	1960-66													1			1				
BELHAVEN	1920-66	3	1	1			1		1												
COLLEGE MISS	1960-66	2		1			1		1												
BELLARMINE	1920-66	11					11	9	1					7			5	1			1
COLLEGE KY	1960-66	9					9	7	1					7			5	1			1
BELMONT ABBEY	1920-66																				
COLLEGE N C	1960-66																				
BELMONT	1920-66													1				1			
COLLEGE TENN	1960-66													1				1			
BELOIT	1920-66	83	2	17	1	1	43	12	4	19	2			40	6		17	7	1		9
COLLEGE WISC	1960-66	29	1	8	1	1	8	7	1	11	1			14	3		6	4	1		
BEMIDJI STATE	1920-66	1	1											6	1			2			3
COLLEGE MINN	1960-66													2	1			1			

Doctorates by Field

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
9	7		1		1	11	6	1	2			2		2		2	10	42	AUGSBURG
1	1					3			1			2		2		2	2	14	COLLEGE MINN
20	4	1	3	3	9	51	23	9	6	1	4	5	3	10	2	7	40	244	AUGUSTANA
8	1			1	6	15	5	5	1		3	1		5	1	4	18	88	COLLEGE ILL
11	4		2	2	2	24	6	9	1			5	3	3	1	2	19	87	AUGUSTANA
4	2		1			11	5	6						2	1	1	7	42	COLLEGE S D
2	1					2	1						1	4	1	3	9	28	AURORA
1	1													1	1		2	7	COLLEGE ILL
10	3	1	1	3	2	12	6	4	1		1			4	1	3	9	66	AUSTIN
7	2	1	1	2	1	6	3	2			1			2		2	2	31	COLLEGE TEX
3	1			1		7	3	2				2		1		1	11	33	AUSTIN PEAY
1				1		5	2	1				2		1		1	8	24	STATE COL TENN
																		1	AUSTIN PRESBYT THEOL SEM
1			1			1					1						1	3	AVILA
1			1			1					1						1	3	COLLEGE MO
1					1												1	2	AZUSA
																	1	1	COLLEGE CAL
1				1														1	BABSON INST OF BUS ADMIN MASS
26	9	1	8	6	1	21	4	4	1	1	2	7	2	21	2	19	37	141	BAKER
6	2		1	1	1	3		1				2		2		2	8	29	UNIVERSITY KAN
31	13		6	6	4	42	9	5	9	1	9	2	6	9	2	5	33	164	BALDWIN-WALLACE
12	7		2	2		13	2	2	2		5		2	3	1	1	18	60	COLLEGE OHIO
19	8		1	4	4	18	7	3	2			4	2	5	3	1	130	199	BALL STATE
12	4		1	4	2	8	2	1	1			3	1	2	1	1	72	99	UNIVERSITY IND
						2	1		1									2	BALTIMORE,
						1			1									1	UNIVERSITY OF
						1					1			2		2		3	BANGOR THEOL
						1					1			1		1		2	SEMINARY ME
1	1					1	1										1	3	BAPTIST BIBLE
1	1					1	1										1	3	SEMINARY N Y
2				2		7	2	3	2								.5	17	BARAT COLL OF
						1		1									3	5	SACRED HT ILL
11	5		1	1	4	20	7	7	6					1	1		2	52	BARD
4	3				1	6	1	4	1					1	1		1	16	COLLEGE N Y
129	75	18	12	12	10	135	28	38	35	10	9		15	5		1	43	450	BARNARD
50	27	6	5	4	6	47	11	15	10	3	3		5	3		1	13	152	COLLEGE N Y
1	1					3	1			1	1			2		2	2	8	BARRINGTON
1	1					3	1			1	1			2		2	2	8	COLLEGE R I
						1							1				1	3	BARRY
						1							1				1	3	COLLEGE FLA
39	15	2	5	9	7	59	22	11	9	8	4	5		13	3	10	57	312	BATES
14	5		2	4	3	25	13	3	2		4	3		2	1	1	5	76	COLLEGE ME
76	35	1	12	16	10	126	38	47	13	1	8	8	11	46	14	25	75	463	BAYLOR
31	19		4	6	2	51	11	21	2		6	4	7	28	8	17	32	187	UNIVERSITY TEX
2	2					4	1	1		1		1		1		1	2	10	BEAVER
1	1					2	1					1		1		1	2	7	COLLEGE PA
						1	1										1	5	BELHAVEN
																		2	COLLEGE MISS
2	2					3	3							1	1			24	BELLARMINE
2	2					3	3							1	1			22	COLLEGE KY
						3	2				1			2		2		5	BELMONT ABBEY
						3	2				1							3	COLLEGE N C
																		1	BELMONT
																		1	COLLEGE TENN
57	9	12	5	18	11	35	10	14	3		3	2	3	2	2		19	236	BELOIT
16	7	4	1		3	10	1	6	1			1	1				6	75	COLLEGE WISC
5	3				2	6	1	1				4					25	43	BEMIDJI STATE
						4						4					17	23	COLLEGE MINN

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
BENEDICT	1920-66													4			2			2
COLLEGE S C	1960-66													4			2			2
BENNETT	1920-66													2		2				
COLLEGE N C	1960-66																			
BENNINGTON	1920-66													2			1	1		
COLLEGE VT	1960-66													1			1			
BEREA	1920-66	66	7	20		5	28	1	9	9	2		2	65	24	4	14	7		16
COLLEGE KY	1960-66	28	3	11		5	11	1	8	3				26	15		5	2		4
BERKELEY BAPT	1920-66																			
DIV SCHOOL CAL	1960-66																			
BERKELEY DIV-	1920-66																			
INITY SCH CONN	1960-66																			
BERKSHIRE	1920-66																			
CHRIST C MASS	1960-66																			
BERRY	1920-66	19		6		1	12	3	1		1			10	5		2	1		2
COLLEGE GA	1960-66	11		4		1	7	2	1					8	5		2			1
BETHANY	1920-66	13	1	2			9	2	3	1				6			1	3		2
COLLEGE KAN	1960-66	3					2	1	1	1										
BETHANY	1920-66	32	4	4	1		19	3	2		5		1	25		1	8	5		11
COLLEGE W VA	1960-66	6					5	2	2		1		1	5		1	4			
BETHANY-NAZA-	1920-66	10	1				9	4						2		1	1			
RENE COLL OKLA	1960-66	4	1				3	2						1			1			
BETHANY THEOL	1920-66																			
SEMINARY ILL	1960-66																			
BETHEL	1920-66	20	5	7		1	8							15	1		4	5		5
COLLEGE KAN	1960-66	6	4	2		1								7			2	2		3
BETHEL COLLEGE	1920-66	3	3											2		1			1	
TENN	1960-66	3	3											1					1	
BETHEL COLL AND	1920-66	1					1													
SEMINARY MINN	1960-66	1					1													
BETHEL	1920-66																			
COLL, INC IND	1960-66																			
BETHUNE-COOKMAN	1920-66																			
COLLEGE FLA	1960-66																			
BIBLICAL SEM	1920-66																			
IN NEW YORK	1960-66																			
BINGHAMTON,	1920-66	6		1			5	2	2					7			3	1		3
SUNY AT	1960-66	5		1			4	2	1					4			2	1		1
BIOLA	1920-66																			
COLLEGE CAL	1960-66																			
BIRMINGHAM-	1920-66	46	9	11	1	1	24	3	2	1	1			21		1	10	2		8
SOUTHERN COLL	1960-66	14	2	5	1	1	7	2	1					6			5			1
BISHOP	1920-66																			
COLLEGE TEX	1960-66																			
BLACKBURN	1920-66	7	1				6	1						12	1		8	1		2
COLLEGE ILL	1960-66	6	1				5	1						7	1		3	1		2
BLACK HILLS	1920-66	2	1				1							1						1
STATE COLL S D	1960-66	1	1											1						1
BLOOMFIELD	1920-66																			
COLLEGE N J	1960-66																			
BLOOMSBURG	1920-66	4					4	3						9				3	1	5
STATE COLL PA	1960-66	4					4	3						7				3		4
BLUE MOUNTAIN	1920-66																			
COLLEGE MISS	1960-66																			
BLUEFIELD	1920-66													1						1
STATE COL W VA	1960-66																			
BLUFFTON	1920-66	15	3				12	2	1					10	2		1	1	1	5
COLLEGE OHIO	1960-66	2	1				1							1			1			
BOB JONES	1920-66	3					3	2						4				4		
UNIVERSITY S C	1960-66	2					2	2						3				3		

Doctorates by Field																				
SOCIAL SCIENCES						ARTS AND HUMANITIES								PROFESSIONAL FIELDS					TOTAL ALL FIELDS	Institution of Baccalaureate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION						
					4	2	1				2		2	3					13	BENEDICT
					1									1					6	COLLEGE S C
					1	1								4					7	BENNETT
					1	1								1					2	COLLEGE N C
3	2			1										2					7	BENNINGTON
1	1													1					3	COLLEGE VT
62	12	1	6	28	15	26	6	9	4		2	3	2	8	1	6	36		263	BEREA
17	2	1	2	6	6	9	2	4	2			1		4		3	14		98	COLLEGE KY
														1		1			1	BERKELEY BAPT
														1		1			1	DIV SCHOOL CAL
														1		1			1	BERKELEY DIV-
														1		1			1	INITY SCH CONN
						1		1											1	BERKSHIRE
						1		1											1	CHRIST C MASS
1				1		4	3	1						2	1	1	11		47	BERRY
1				1										1	1		7		28	COLLEGE GA
4			2	2		14	4	2				8		3		3	13		53	BETHANY
1				1		6	1	1				4		1		1	6		17	COLLEGE KAN
16	7		3	5	1	9	5	2	1		1			10		10	25		117	BETHANY
6	3			3		3		1	1		1			2		2	5		27	COLLEGE W VA
8	5		2		1	10	3			5	2			7	1	5	22		59	BETHANY-NAZA-
3	3					2				1	1			4	1	2	17		31	RENE COLL OKLA
						1		1											1	BETHANY THEOL SEMINARY ILL
19	9	1	2	3	3	16	3	5	1	1	1	2	3	11	1	9	18		99	BETHEL
10	4	1		2	2	8		3		1		2	2	5	1	3	7		43	COLLEGE KAN
						3		1	1		1			2		2	12		22	BETHEL COLLEGE
						1					1			1		1	4		10	TENN
						6	2	1	1	1	1			2		2			9	BETHEL COLL AND
						5	1	1	1	1	1			1		1			7	SEMINARY MINN
2	2					1					1			1		1			4	BETHEL
2	2					1					1			1		1			4	COLL, INC IND
																	4		4	BETHUNE-COOKMAN
																	2		2	COLLEGE FLA
						1	1										1		2	BIBLICAL SEM IN NEW YORK
5	2			3		9	1	3	4			1							27	BINGHAMTON,
4	2			2		8	1	3	4										21	SUNY AT
						6	2		3	1				2		1	2		10	BIOLA
						6	2		3	1				1			2		9	COLLEGE CAL
40	21		4	8	7	60	19	24	5	3	3	3	3	14	1	13	39		220	BIRMINGHAM-
14	10		1	2	1	20	5	5	4		2	2	2	5		5	14		73	SOUTHERN COLL
1	1					2		1					1	1	1		10		14	BISHOP
1	1					1		1						1	1		3		6	COLLEGE TEX
11	2		4	5		2		1	1								1		33	BLACKBURN
10	2		4	4		2		1	1								1		26	COLLEGE ILL
1				1		1						1					12		17	BLACK HILLS
						1						1					9		12	STATE COLL S D
1					1	1				1				3		3	1		6	BLOOMFIELD
																	1		1	COLLEGE N J
4	1	1			1	3	1					2		1	1		38		59	BLOOMSBURG
						1	1										22		34	STATE COLL PA
2	2					8	2	2	3			1					4		14	BLUE MOUNTAIN
						5	2	2	1								1		6	COLLEGE MISS
1				1										1		1	7		10	BLUEFIELD
																	3		3	STATE COL W VA
12	4		1	1	6	11	4	1	1			4		5		4	21		74	BLUFFTON
1	1					3	1					2		1		1	10		18	COLLEGE OHIO
						13	1	4	1		1	5	1				9		29	BOB JONES
						10	1	4			1	3	1				9		24	UNIVERSITY S C

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
BORROMEO SEMINARY OHIO	1920-66																			
	1960-66																			
BOSTON COLLEGE	1920-66	133	7	44	3	10	76	29	9	3	3	1		35		5	18	6		6
	1960-66	62	4	27	3	10	30	18	7		1			16		4	9	2		1
BOSTON CONSERV OF MUSIC	1920-66																			
	1960-66																			
BOSTON, STATE COLL AT	1920-66													5		3			1	1
	1960-66													1					1	
BOSTON UNIVERSITY	1920-66	120	13	24	1		64	15	19	16	3			76		9	23	19	1	24
	1960-66	54	4	6	1		31	9	12	11	2			30		3	8	12	1	6
BOUVE-BOSTON SCHOOL	1920-66																			
	1960-66																			
BOWDOIN COLLEGE ME	1920-66	95	9	33	1	4	39	10	3	6	8	1	1	43	2	6	8	3		24
	1960-66	34	4	13		4	9	7	2	4	4			11		2	5	2		2
BOWLING GREEN COLL OF COM KY	1920-66																			
	1960-66																			
BOWLING GREEN ST UNIV OHIO	1920-66	56	7	6		1	38	12	9	4	1			21	2	1	7	5	3	3
	1960-66	28	3	2			19	9	6	3	1			11	1		4	2	3	1
BRADLEY UNIVERSITY ILL	1920-66	65	5	6			41	17	4	2	11		1	14			10	1		3
	1960-66	33	4	2			16	10	3	1	10		1	5			4			1
BRANDEIS UNIV MASS	1920-66	10	2	3	1	1	5	3						10			4	5		1
	1960-66	9	2	3	1	1	4	2						10			4	5		1
BRENEAU COLLEGE GA	1920-66																			
	1960-66																			
BRESCIA COLLEGE KY	1920-66													1						1
	1960-66													1						1
BRIAR CLIFF COLLEGE IOWA	1920-66																			
	1960-66																			
BRIDGEPORT, UNIVERSITY OF	1920-66	4	1	1							2			2			1	1		
	1960-66	4	1	1							2			2			1	1		
BRIDGEWATER COLLEGE VA	1920-66	19	4				12	1	2	3				21	1	2	3	6		9
	1960-66	4	1				2		1	1				9		1	3	3		2
BRIDGEWATER, ST COL AT,MASS	1920-66	7	2				4	2	2	1				3					1	2
	1960-66	4	1				3	1	2					1						1
BRIGHAM YOUNG UNIV UTAH	1920-66	208	5	44	3	4	94	30	20	33	32	7	6	242	90	5	41	59	5	42
	1960-66	103	4	17	2	3	41	15	12	17	24	6	6	74	23	4	13	19	3	12
BROCKPORT, SUNY COLL AT	1920-66													1			1			
	1960-66													1			1			
BROOKLYN COLLEGE	1920-66	660	123	172	7	20	322	74	67	26	17	2	3	283	3	20	85	109		66
	1960-66	257	65	50	7	11	122	55	48	11	9	1	2	116	1	6	38	52		19
BROOKLYN LAW SCHOOL	1920-66																			
	1960-66																			
BROWN UNIVERSITY R I	1920-66	362	47	67	5	4	184	57	23	25	39	3	8	147	5	8	40	33	3	58
	1960-66	121	18	24	5	3	48	28	12	7	24	1	5	34	1	3	10	12	1	7
BRYANT COLLEGE R I	1920-66													1				1		
	1960-66																			
BRYN MAWR COLLEGE PA	1920-66	46	11	5			25	11	4	4	1			39		5	15	9		10
	1960-66	13	2	1			9	6	2	1				15		2	8	4		1
BUCKNELL UNIVERSITY PA	1920-66	94	15	7			41	15	4	4	27	9	5	56	1	6	18	16		15
	1960-66	27	3	2			9	7	1	2	11	3	2	18	1	1	8	6		2
BUENA VISTA COLLEGE IOWA	1920-66	7	1	1			5	1	2					3			1	1		1
	1960-66	2	1				1	1												
BUFFALO, SUNY COLL AT	1920-66	4	2								2		2	3		1				2
	1960-66	1									1		1							
BUFFALO, SUNY AT	1920-66	205	32	47		6	101	23	11	11	14		9	85	2	13	22	25	2	21
	1960-66	62	11	9		4	26	12	5	6	10		6	38		6	14	13	2	3
BUTLER COLLEGE TEX	1920-66	4	2				2													
	1960-66																			
BUTLER UNIVERSITY IND	1920-66	40	7	7			25	6	2	1				59		7	8	6	4	34
	1960-66	9	3	2			3	2	1	1				16		3	4		4	5

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
													1 1		1 1			1 1	BORROMEO SEMINARY OHIO
68 24	23 13	1	10	23 9	9 2	131 49	35 8	38 19	19 6	12 6	20 7	3 2		16 5	3 2	8 1	80 34	463 190	BOSTON COLLEGE
						2 1							2 1					2 1	BOSTON CONSERV OF MUSIC
1 1	1 1					3		3									14 8	23 10	BOSTON, STATE COLL AT
189 74	99 39	4 2	23 8	35 12	22 9	186 55	41 12	59 16	32 9	3 1	23 6	9 4	14 7	42 8	10 2	26 5	271 109	884 330	BOSTON UNIVERSITY
																	2 2	2 2	BOUVE-BOSTON SCHOOL
48 18	14 9	3 1	3	8 1	18 6	128 35	31 10	31 10	33 8	12 4	8 2		5 1	11 2	4 1	2	23 6	348 106	BOWDOIN COLLEGE ME
2				2										5 3	5 3		10 2	17 5	BOWLING GREEN COLL OF COM KY
36 15	17 6		10 5	4 1	3 3	52 34	16 9	10 10	3 1		1	20 12	2 2	11 8	8 5		68 35	244 131	BOWLING GREEN ST UNIV OHIO
30 21	14 12			7 4	8 5	14 2	4 1	6				3 1	1	6 4	4 3	2 1	41 18	170 83	BRADLEY UNIVERSITY ILL
41 35	20 18	1 1	4 3	5 3	11 10	19 19	7 7	3 3	5 5		4 4						1 1	81 74	BRANDEIS UNIV MASS
1			1			5 1	3 1	2									4 2	10 3	BRENEAU COLLEGE GA
						1 1	1 1							1 1		1 1		3 3	BRESCIA COLLEGE KY
1				1		1 1		1 1						1		1	2 2	5 3	BRIAR CLIFF COLLEGE IOWA
9 5	6 3		1 1		1 1	1 1	1 1							1 1			12 4	29 18	BRIDGEPORT, UNIVERSITY OF
17 2	7 1		2 1	5	2	18 3	6 1	4	4		2	1 1	1 1	4 3		4 3	20 4	99 25	BRIDGEWATER COLLEGE VA
6 3			1			5 2	1	3 2				1					51 14	72 24	BRIDGEWATER, ST COL AT,MASS
136 61	54 30	3 1	36 9	22 11	14 7	136 70	25 11	29 14	33 21	2 2		32 15	14 7	38 20	29 15	3	192 103	952 431	BRIGHAM YOUNG UNIV UTAH
6 1	4					4 3	2 2	1				1 1					39 25	50 30	BROCKPORT, SUNY COLL AT
646 329	447 221	20 12	45 27	79 32	38 24	330 165	81 45	103 54	63 23	8 7	17 8	47 21	11 7	34 23	11 8	14 9	240 129	2193 1019	BROOKLYN COLLEGE
6 3	2 2		1	3 1		3 1	2 1		1					6 3		1	1 1	16 8	BROOKLYN LAW SCHOOL
173 65	96 42	7 2	13 3	30 10	22 7	157 40	47 12	52 15	29 5	10 3	10 3	2 2		27 3	7 1	11 2	56 20	922 283	BROWN UNIVERSITY R I
1				1										1 1	1 1		4 2	7 3	BRYANT COLLEGE R I
81 17	29 7	22 3	8 2	14 2	8 3	140 35	26 4	34 13	37 12	21 3	15 3		7	8		2	9 2	323 82	BRYN MAWR COLLEGE PA
68 21	50 14		1	5 4	6 1	40 11	10 4	17 6	4 1	2	3	2	2	11 4	5 4	5	56 13	325 94	BUCKNELL UNIVERSITY PA
1				1		3 1	1	2 1						1	1		23 11	38 14	BUENA VISTA COLLEGE IOWA
19 4	8 1		5 3	1		11 3	4	2		1		4 3		1 1			137 40	175 49	BUFFALO, SUNY COLL AT
103 37	62 15	5 2	14 11	15 5	3 1	65 29	19 7	18 9	9 3	4	9 7	4 3	1	18 8	16 7	1 1	85 35	561 209	BUFFALO, SUNY AT
3				1	1	1			1									8	BUTLER COLLEGE TEX
25 12	11 6		5 2	6 2	1	49 14	11 2	9 2	6 3	4.	7 1	5 3	7 3	17 4	1 1	14 3	51 23	241 78	BUTLER UNIVERSITY IND

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CALDWELL COLL	1920-66													2		1	1				
FOR WOMEN N J	1960-66													2		1	1				
CALIF COLL OF	1920-66																				
ARTS & CRAFTS	1960-66																				
CALIF COLLEGE	1920-66	1		1																	
OF MEDICINE	1960-66																				
CALIFORNIA INST	1920-66	907	90	291	29	22	175	27	21	89	262	25	64	77			55	9		13	
OF TECHNOLOGY	1960-66	330	49	114	26	17	42	16	14	24	101	11	23	26			20	3		3	
CALIF STATE	1920-66	1		1																	
COLLEGE PA	1960-66																				
CALIF ST COLL	1920-66	6		5	1	1	1		1					10			1	3	1	5	
AT LONG BEACH	1960-66	6		5	1	1	1		1					10			1	3	1	5	
CALIF ST COLL	1920-66	2	1	1										8		1	1	3		3	
AT LOS ANGELES	1960-66	1		1										8		1	1	3		3	
CALIF STATE	1920-66	11					4			2	5		3	60	37	1	7	12	2	1	
POLYTECH COLL	1960-66	10					4			2	4		2	41	25		5	9	1	1	
CALIF, UNIV OF,	1920-66	1727	175	422	54	35	623	101	79	126	381	49	77	1100	150	71	330	276	4	269	
BERKELEY	1960-66	613	68	146	44	26	148	65	42	32	219	34	47	236	29	19	77	59	2	50	
CALIF, UNIV OF,	1920-66	24	1				20	3	4		3			148	33	18	43	43	3	8	
DAVIS	1960-66	20	1				16	3	4		3			95	19	9	27	31	2	7	
CALIF, UNIV OF,	1920-66	676	112	149	7	10	242	43	26	86	87	12	16	347	18	14	94	95	3	123	
LOS ANGELES	1960-66	285	52	52	7	7	71	31	17	41	69	9	15	136	4	8	37	44	2	41	
CALIF, UNIV OF,	1920-66	49	7	10	1	5	28	11	6	4				11	1		2	2	1	5	
RIVERSIDE	1960-66	48	7	10	1	5	27	10	6	4				11	1		2	2	1	5	
CALIF, UNIV OF,	1920-66	7					7							5		1	3			1	
SAN FRANCISCO	1960-66	7					7							4		1	2			1	
CALIF, UNIV OF,	1920-66	17		3			9	6	1	5				33			6	7	2	18	
SANTA BARBARA	1960-66	13		2			7	5	1	4				19			4	2	2	11	
CALIF WESTERN	1920-66																				
UNIVERSITY	1960-66																				
CALVARY BIBLE	1920-66																				
COLLEGE MO	1960-66																				
CALVIN COLLEGE	1920-66	83	6	6		2	66	15	16		5			39	3	1	10	7		18	
MICH	1960-66	41	5	3		1	30	12	12		3			22	2	1	5	4		10	
CALVIN THEOL	1920-66																				
SEMINARY MICH	1960-66																				
CAMPBELLSVILLE	1920-66																				
COLLEGE KY	1960-66																				
CANISIUS	1920-66	78	7	20	1	6	47	14	5		4			9		1	5	1		2	
COLLEGE N Y	1960-66	35	4	8	1	5	20	11	4		3			2			2				
CAPITAL	1920-66	34		10		3	23	6	3	1				16			2	5		9	
UNIV OHIO	1960-66	15		6		3	8	3	2	1				3				2		1	
CARDINAL GLEN-	1920-66																				
NON COLLEGE MO	1960-66																				
CARD STRITCH	1920-66	1					1							1						1	
COLLEGE WISC	1960-66	1					1														
CARLETON	1920-66	150	11	37	4	9	70	11	13	24	8	1	1	64	5	3	20	9	1	26	
COLLEGE MINN	1960-66	55	7	15	3	8	16	4	9	13	4		1	19	2		5	2	1	9	
CARNEGIE INST	1920-66	699	67	174	16	29	118	25	29		340	65	86	15			10	3		2	
OF TECH PA	1960-66	290	29	66	13	19	31	10	15		164	32	49	5			3	1		1	
CARROLL	1920-66	24	1	2	2		21	2	4					18	1		6	6		5	
COLLEGE WISC	1960-66	10	1	2	2		7	2	1					6	1		4	1			
CARROLL	1920-66	13	3	3			7	1	1					9			3	2		4	
COLLEGE MONT	1960-66	3					3		1					3			1			2	
CARSON-NEWMAN	1920-66	19		3		2	16	3	3					9		1	2	3		3	
COLLEGE TENN	1960-66	7		3		2	4	2	1					4		1	1	1		1	
CARTHAGE	1920-66	26	2				23	5	3		1	1		13	2	2	6	1	1	1	
COLLEGE WISC	1960-66	3					3	2						7	2	2	2		1		
CASCADE	1920-66	1		1										1			1				
COLLEGE OREG	1960-66													1			1				

Doctorates by Field																			Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
1	1					1		1										4	CALDWELL COLL
1	1					1		1										4	FOR WOMEN N J
																	3	3	CALIF COLL OF
																	2	2	ARTS & CRAFTS
																		1	CALIF COLLEGE OF MEDICINE
23	11			7	2	9	1	4	2		2			5	5		1	1022	CALIFORNIA INST
7	1			5	1	1	1							2	2			366	OF TECHNOLOGY
14	11		1			5	2	3									68	88	CALIF STATE
						3		3									32	35	COLLEGE PA
13	8		3			8		3	3		1						18	55	CALIF ST COLL
13	8		3			8		3	3		1						16	53	AT LONG BEACH
30	19	1	5	1	4	17	4	6	1			5	1	1	1		25	83	CALIF ST COLL
16	6	1	4	1	4	14	4	5	1			4		1	1		24	64	AT LOS ANGELES
4	2			2										1		1	6	82	CALIF STATE
4	2			2										1		1	6	62	POLYTECH COLL
823	277	97	68	211	116	672	234	130	158	29	61	25	28	83	43	18	449	4854	CALIF, UNIV OF,
271	109	35	29	44	31	193	56	38	49	8	15	12	12	23	18	3	142	1478	BERKELEY
16	2			14		2	1	1									12	202	CALIF, UNIV OF,
13	2			11		2	1	1									8	138	DAVIS
574	301	42	42	65	86	397	126	77	88	13	28	34	26	58	29	20	337	2389	CALIF, UNIV OF,
246	125	26	22	30	25	151	38	26	41	4	8	17	14	36	26	7	173	1027	LOS ANGELES
17	4	2		2	9	8	2	1	4		1						2	87	CALIF, UNIV OF,
17	4	2		2	9	8	2	1	4		1						2	86	RIVERSIDE
1					1	1			1								1	15	CALIF, UNIV OF,
																	1	12	SAN FRANCISCO
37	22	3	4	4	4	47	18	9			3	12	4	1			81	216	CALIF, UNIV OF,
23	15	2	2	2	2	22	10	6			1	3	2	1			36	114	SANTA BARBARA
1				1														1	CALIF WESTERN
1				1														1	UNIVERSITY
1		1															2	3	CALVARY BIBLE
1		1															2	3	COLLEGE MO
36	18		6	5	6	80	16	19	9	4	24	5	3	15	3	11	36	289	CALVIN COLLEGE
21	11		4	2	3	35	10	10	2	2	4	4	3	7	2	4	21	147	MICH
														1		1	1	2	CALVIN THEOL
														1		1		1	SEMINARY MICH
1					1													1	CAMPBELLSVILLE
1					1													1	COLLEGE KY
12	5		4	2		19	7	7	1		1	1		3	1	2	24	145	CANISIUS
4	1		1	1		4	1	3									11	56	COLLEGE N Y
5	2		2		1	34	8	5	4	2	8	3	4	13	1	12	25	127	CAPITAL
2	2					7	2	1			1	1	2	6	1	5	14	47	UNIV OHIO
																	1	1	CARDINAL GLEN-
																	1	1	NON COLLEGE MO
1			1			2	1		1								4	9	CARD STRITCH
						1			1								2	4	COLLEGE WISC
65	22	7	5	20	10	94	27	27	10	5	8	5	11	14	6	6	36	423	CARLETON
28	10	4		7	6	37	11	11	4	3	2	2	4	8	3	3	11	158	COLLEGE MINN
30	16		6	6		35	1	3	2		1	11	16	22	16	2	40	841	CARNEGIE INST
15	9		2	4		15		1				5	9	15	12	1	11	351	OF TECH PA
21	7	2	8	3	1	20	6	4	1	3	1	5		3	1		18	104	CARROLL
6	3		3			6	1	2		1	1	1					7	35	COLLEGE WISC
2				1	1	3	1	2									1	28	CARROLL
1				1		2	1	1									1	10	COLLEGE MONT
12	5		3	2	2	15	6	4	3		2			5		5	21	81	CARSON-NEWMAN
8	4		2	1	1	6	2		2		2			1		1	8	34	COLLEGE TENN
3	2					8		2	1		4		1	9		8	17	76	CARTHAGE
2	1					1					1						9	22	COLLEGE WISC
1	1					2	1						1	4		4	3	12	CASCADE
1	1					1	1							1		1	3	7	COLLEGE OREG

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CASE INSTITUTE	1920-66	432	35	111	4	12	96	21	23	1	189	36	27	11		2	8				1
OF TECH OHIO	1960-66	217	21	36	4	9	37	17	15	1	122	20	22	2			1				1
CASTLETON	1920-66																				
STATE COLL VT	1960-66																				
CATAWBA	1920-66	14	1	5			8	1	1					5		1	1	1			2
COLLEGE N C	1960-66	3		1			2	1													
CATHEDRAL COLL	1920-66	1	1																		
OF IM CONC N Y	1960-66	1	1																		
CATHERINE	1920-66	2					2		1												
SPALDING C KY	1960-66	1					1		1												
CATHOLIC TEACH-	1920-66																				
ERS COLL R I	1960-66																				
CATHOLIC UNIV	1920-66	112	16	33	1	5	38	4	12	2	23	6	3	43		1	12	9			21
OF AMERICA D C	1960-66	46	6	15	1	4	10	2	7	1	14	1	1	12			2	6			4
CATHOLIC UNIV	1920-66	1					1		1												
OF PUERTO RICO	1960-66	1					1		1												
CEDAR CREST	1920-66													2				2			
COLLEGE PA	1960-66													1				1			
CENTENARY	1920-66	32	1	2			26	8	2	2	1	1		7	1	1	1	3			1
COLLEGE LA	1960-66	9					8	6	1	1				4			1	2			1
CENTRAL BAPT	1920-66																				
THEOL SEM KAN	1960-66																				
CENTRAL BIBLE	1920-66																				
INSTITUE MO	1960-66																				
CENTRAL	1920-66	27	3	3		1	20	7	1		1			15	4		5	4			2
COLLEGE IOWA	1960-66	13	2	2		1	9	6	1					7	2		3	2			
CENTRAL CONN	1920-66	11	3				8	1	2					3			1	2			
STATE COLLEGE	1960-66	4	1				3	1						3			1	2			
CENTRAL METHOD	1920-66	69	4	8			55	9	5	2				24			9	4			11
COLLEGE MO	1960-66	14	1	1			12	4	3					8			4	3			1
CENTRAL	1920-66	10		3		1	6		2	1				15	3	1	2	2			7
MICHIGAN UNIV	1960-66	4		2		1	2		2					10	3	1	1	1			4
CENT MISSOURI	1920-66	29	9	5		2	15	3						19	1	1	5	2			10
STATE COLLEGE	1960-66	8	1	2		2	5	1						6	1		3				2
CENTRAL STATE	1920-66	1					1	1						4			2	2			
COLLEGE OHIO	1960-66	1					1	1						4			2	2			
CENTRAL STATE	1920-66	13	2	3			8	1	3					12	1	3		2	1		5
COLLEGE OKLA	1960-66	6		1			5	1	3					5	1	1		1	1		1
CENTRAL WASH	1920-66	4		1	1		3	2	1					1							1
STATE COLLEGE	1960-66	3		1	1		2	2						1							1
CENT WESLEYAN	1920-66																				
COLLEGE S C	1960-66																				
CENTRE COLL OF	1920-66	23		4			17	3	1	1	1			10	1	1	1	4			3
KENTUCKY	1960-66	7		2			5	2	1					2			1	1			
CHADRON STATE	1920-66	17	1	1			15	2	4					7	5		1	1			
COLLEGE NEBR	1960-66	3	1				2	1	1					1				1			
CHAPMAN	1920-66													1				1			
COLLEGE CAL	1960-66																				
CHARLESTON,	1920-66	30	2	4		1	21	1	3	1	2	1		22		4	6	2	1		9
COLL OF, S C	1960-66	5		1		1	2		1	1	1	1		8		2	2	2	1		1
CHATHAM	1920-66	6	1				5	1	1					7			3	1			3
COLLEGE PA	1960-66	3	1				2	1						1			1				
CHATTANOOGA,	1920-66	24		9		1	15	2	2					11		2	5	2			2
UNIVERSITY OF	1960-66	3		1		1	2	1						5		1	1	2			1
CHESTNUT HILL	1920-66	5	1	1			3							2			1	1			
COLLEGE PA	1960-66	4	1	1			2							2			1	1			
CHEYNEY STATE	1920-66																				
COLLEGE PA	1960-66																				
CHICAGO CONSER-	1920-66																				
VATORY COLL	1960-66																				

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
3			1	2		4	1	1			1		1	3	3		3	456	CASE INSTITUTE
1				1		3	1	1					1	2	2		1	226	OF TECH OHIO
																	4	4	CASTLETON
																	1	1	STATE COLL VT
4	2		1		1	6	1	1	4								24	53	CATAWBA
2			1		1												10	15	COLLEGE N C
2	1		1			7	1	2		1	3			4		3	4	18	CATHEDRAL COLL
1			1			2				1	1			4		3	3	11	OF IM CONC N Y
2	2					10	3	2	2		3						2	16	CATHERINE
2	2					3		1	1		1						1	7	SPALDING C KY
2	1		1			1		1									4	7	CATHOLIC TEACH-
1	1					1		1									4	6	ERS COLL R I
69	25	4	14	15	10	250	54	40	37	36	78	2	2	397		383	89	960	CATHOLIC UNIV
13	4	1	3	2	2	46	11	10	7	4	12	2		17		15	21	155	OF AMERICA D C
																		1	CATHOLIC UNIV
																		1	OF PUERTO RICO
1			1											1			1	5	CEDAR CREST
																	1	2	COLLEGE PA
8	6		1		1	10	2	4	1		1		2	6	4	2	12	75	CENTENARY
4	4					4		2					2	6	4	2	3	30	COLLEGE LA
																	1	1	CENTRAL BAPT
																			THEOL SEM KAN
						1			1									1	CENTRAL BIBLE
						1			1									1	INSTITUE MO
11	6	1	1		2	8	2		1		4	1		4		4	24	89	CENTRAL
3		1	1		1	3	1				1	1		1		1	8	35	COLLEGE IOWA
13		1	6		1	3	3							3	2	1	65	98	CENTRAL CONN
5			2			2	2										31	45	STATE COLLEGE
7	1		3	3		27	5	13	3		2	1	3	6		6	35	168	CENTRAL METHOD
2	1		1			5	1	2	1				1	2		2	14	45	COLLEGE MO
24	9		7	3	1	23	2	7	4		1	7	2	[illegible]	[illegible]		92	166	CENTRAL
10	4		4	1		8		3	1			3	1				47	79	MICHIGAN UNIV
19	5		1	3	5	31	13	6	5			6	1	4	3	1	143	245	CENT MISSOURI
7	1				2	9	1	1	1			5	1	1	1		49	80	STATE COLLEGE
2				1		2		1					1	1	1		8	18	CENTRAL STATE
1				1										1	1		4	11	COLLEGE OHIO
8	1			2	4	12	3	5	2			2		1	1		78	124	CENTRAL STATE
3				1	2	1		1									40	55	COLLEGE OKLA
10	2		1			8	6	1				1		2	1	1	52	77	CENTRAL WASH
5	2		1			3	2					1		1		1	26	39	STATE COLLEGE
						1			1									1	CENT WESLEYAN
						1			1									1	COLLEGE S C
12	5			4	2	17	6	8	2			1		2		1	9	73	CENTRE COLL OF
6	3			2		2	1	1									4	21	KENTUCKY
10	3			2	4	1						1					24	59	CHADRON STATE
4	2				1												10	18	COLLEGE NEBR
9	4		4		1	4	2				2			4		4	11	29	CHAPMAN
2	1				1	1	1										4	7	COLLEGE CAL
1	1					27	9	8	3	3	1		3	1		1	1	82	CHARLESTON,
						8	3	2		1			2					21	COLL OF, S C
3	2		1			7	1	1	3	1		1					4	27	CHATHAM
						2		1				1						6	COLLEGE PA
18	7	1	3	5	2	30	6	11	5	3	1		2	4	1	3	17	104	CHATTANOOGA,
6	2		1	1	2	8	1	2	3				2	3	1	2	9	34	UNIVERSITY OF
4	3				1	8	4	3	1					1		1	1	21	CHESTNUT HILL
1					1	3	3											10	COLLEGE PA
																	4	4	CHEYNEY STATE
																			COLLEGE PA
						1							1				3	4	CHICAGO CONSER-
						1							1					1	VATORY COLL

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CHICAGO-KENT COLL OF LAW	1920-66																			
	1960-66																			
CHICAGO THEOL SEMINARY	1920-66																			
	1960-66																			
CHICAGO, UNIVERSITY OF	1920-66	1099	202	286	14	32	463	69	29	126	22	3	3	556	11	70	229	91	2	153
	1960-66	237	62	83	10	26	64	26	13	21	7		2	107	1	12	57	15	2	20
CHICO STATE COLLEGE CAL	1920-66	12	1	1		1	5	1	3	1	4		1	17	6	1	1	3	1	5
	1960-66	9		1		1	4		3		4		1	5	2		1	1	1	
CHRISTIAN BROS COLLEGE TENN	1920-66	2	1								1	1								
	1960-66	2	1								1	1								
CINCINNATI BIBLE SEMINARY	1920-66																			
	1960-66																			
CINCINNATI, UNIVERSITY OF	1920-66	282	30	49	1	5	84	15	9	18	101	29	10	91	4	14	31	13	1	28
	1960-66	128	12	14	1	5	27	11	9	10	65	20	7	27	1	6	10	6	1	3
CITADEL, THE S CAR	1920-66	62	4	11		3	37	8	5		10	2	1	8		4	2			2
	1960-66	23	2	4		3	13	7	4		4		1	3		2	1			
CITY COLLEGE OF CITY U OF N Y	1920-66	1553	187	291	16	40	681	166	75	71	323	61	79	463	7	29	217	119	2	89
	1960-66	560	60	96	14	35	186	120	39	38	180	31	53	130	2	10	69	28	1	20
CLAFLIN COLLEGE S C	1920-66													1						1
	1960-66																			
CLAREMONT MENS COLLEGE CAL	1920-66																			
	1960-66																			
CLARION STATE COLL PA	1920-66	1	1											2					1	1
	1960-66	1	1											1					1	
CLARK COLLEGE GA	1920-66	6	1				5	4						3				1		2
	1960-66	5					5	4						2				1		1
CLARK UNIV MASS	1920-66	85	6	10		1	65	13	5	3	1			52	3	4	20	11		14
	1960-66	13	2	1		1	10	3	3					13	1	2	5	4		1
CLARKE COLLEGE IOWA	1920-66	1					1							3			1			2
	1960-66													2			1			1
CLARKSON COLL OF TECH N Y	1920-66	68	1	5		1	29	7	13		33	16	5	4			4			
	1960-66	42		4		1	15	5	9		23	12	4	3			3			
CLEMSON UNIVERSITY S C	1920-66	111	2	14		5	46	9	6		49	10	3	137	73	1	10	40	1	12
	1960-66	51	1	8		5	11	4	2		31	7	1	24	11		1	8		4
CLEVELAND INST OF MUSIC	1920-66																			
	1960-66																			
CLEVELAND STATE UNIVERSITY	1920-66	30	2	3			7		1		18	4	3	5			2	1		2
	1960-66	14	2								12	4	3	4			2	1		1
COE COLLEGE IOWA	1920-66	59	1	11		1	40	9	9	7				21	3		5	3		10
	1960-66	14		2		1	12	5	3					4			3	1		
COKER COLLEGE S C	1920-66	1	1											3				1		2
	1960-66																			
COLBY COLLEGE ME	1920-66	36	3	5		1	16	1	1	11	1			15		1	4	3	1	6
	1960-66	14		2		1	4	1	1	7	1			7			3	2	1	1
COLGATE ROCHES-TER DIV SCHOOL	1920-66																			
	1960-66																			
COLGATE UNIVERSITY N Y	1920-66	93	10	14		2	54	9	10	12	3		1	28	2	7	6	3	1	9
	1960-66	23	2	3		2	12	4	5	5	1		1	10	1	2	3	2		2
COLL CONSERV OF MUS OF CINCIN	1920-66																			
	1960-66																			
MISERICORDIA COLLEGE PA	1920-66																			
	1960-66																			
COLORADO COLLEGE	1920-66	63	8	23	1		19	4	4	9	4	1		46	2	4	12	12		16
	1960-66	17	2	2	1		5	2	2	5	3			10			1	1		8
COLORADO SCHOOL OF MINES	1920-66	118	1	6		1	5	2	2	63	42	6		1			1			
	1960-66	58	1	4		1	4	1	2	29	20	5								
COLORADO STATE COLLEGE	1920-66	17	3				13	4	3		1	1		44	17	3	9	3		12
	1960-66	8	1				7	4	2					5			4			1
COLORADO STATE UNIVERSITY	1920-66	79	10	13	2	3	35	2	6	1	20		4	293	135	27	45	47	6	33
	1960-66	46	2	10	2	3	18	1	4	1	15		3	143	68	13	31	13	4	14

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2				2										1			1	4	CHICAGO-KENT COLL OF LAW
														1		1		1	CHICAGO THEOL SEMINARY
895	320	91	155	119	138	617	166	162	122	27	86	9	32	149	50	65	278	3594	CHICAGO,
259	116	24	42	23	39	157	47	32	28	3	28	2	14	36	15	17	57	853	UNIVERSITY OF
11	6		1	1	1	8	5	2			1						49	97	CHICO STATE
7	5					3	2	1									14	38	COLLEGE CAL
1			1															3	CHRISTIAN BROS
																		2	COLLEGE TENN
						5	1				2	2		3		3	4	12	CINCINNATI
						2						2		1		1	3	6	BIBLE SEMINARY
104	44	5	14	24	8	94	25	21	17	10	16	2	3	48	8	26	86	705	CINCINNATI,
33	15	1	3	8	3	26	8	7	2	2	6	1		22	6	11	33	269	UNIVERSITY OF
14	3		2	3	6	12	5	5	2					2		1	9	107	CITADEL, THE
6				2	4	2	2							2		1	4	40	S CAR
1058	694	23	88	149	67	491	149	119	119	17	50	15	16	124	38	30	611	4300	CITY COLLEGE OF
463	306	9	33	57	34	138	43	48	22	1	8	7	8	23	17		148	1462	CITY U OF N Y
2	1		1			1		1									4	8	CLAFLIN
																	1	1	COLLEGE S C
12	1			8	3	2	2							1	1		1	16	CLAREMONT MENS
12	1			8	3	2	2										1	15	COLLEGE CAL
3	1			1		3	1	2									29	38	CLARION
2	1			1		2		2									18	24	STATE COLL PA
2			2			3			1	1			1	6		5	7	27	CLARK
														2		2	4	13	COLLEGE GA
98	38	1	10	14	7	62	25	13	12		5	1	1	6		3	37	340	CLARK
26	9		1	4	3	11	4	4	1		1		1	1		1	8	72	UNIV MASS
2			2			16	3	5	4	2	2						6	28	CLARKE
1			1			4		2	1	1							2	9	COLLEGE IOWA
2	1			1		2		1		1				1	1		3	80	CLARKSON COLL
1	1					2		1		1							1	49	OF TECH N Y
34			6	25	3	5	2	3						4	3		26	317	CLEMSON
18			1	15	2	4	1	3						3	3		12	112	UNIVERSITY S C
						3							3				3	6	CLEVELAND
																	1	1	INST OF MUSIC
8	6		1	1		2		1	1					1			4	50	CLEVELAND STATE
3	2		1														2	23	UNIVERSITY
33	12		7	10	3	14	3	3	2	1		2	3	5	3	1	39	171	COE COLLEGE
3	2				1	1							1				10	32	IOWA
						5	2	2		1								9	COKER
						2	1	1										2	COLLEGE S C
23	11	1	2	7	2	41	10	18	7	1	3		1	9	3	4	32	156	COLBY
10	5	1	2	2		16	4	6	2	1	1		1	2	1	1	8	57	COLLEGE ME
						1			1					2		2	2	5	COLGATE ROCHES-
						1			1								1	2	TER DIV SCHOOL
67	27	1	6	14	14	66	21	13	19	2	8		1	12	3	6	57	323	COLGATE
24	11	1	2	1	7	21	7	7	2		4			5	1	3	15	98	UNIVERSITY N Y
						20							20				9	29	COLL CONSERV OF
						11							11				5	16	MUS OF CINCIN
4	1			1	1	4		2	1		1			1			3	12	MISERICORDIA
						1		1						1			1	3	COLLEGE PA
40	22	2	1	12	2	37	7	15	7		1	2	5	12	5	3	18	216	COLORADO
13	7	1	1	4		6	1	3	1			1		3	2		7	56	COLLEGE
1				1													1	121	COLORADO SCHOOL
																	1	59	OF MINES
33	11	2	5	7	5	46	3	13	5		1	15	9	5	3	1	228	373	COLORADO STATE
7	3			1	1	22	2	6				8	6	3	3		92	137	COLLEGE
29	6		4	18	1	9	2				1	4	2	3	2		48	461	COLORADO STATE
17	3		2	12		6	2					2	2	2	1		19	233	UNIVERSITY

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
COLORADO,	1920-66	377	27	85	1	10	126	18	17	41	98	20	27	137	3	31	35	26	6	36
UNIVERSITY OF	1960-66	144	15	41	1	10	25	8	11	22	41	11	17	39	2	8	9	5	3	12
COLUMBIA BIBLE	1920-66																			
UNIVERSITY S C	1960-66																			
COLUMBIA	1920-66	3					3		1					2						2
COLLEGE ILL	1960-66																			
COLUMBIA	1920-66																			
COLLEGE S C	1960-66																			
COLUMBIA THEOL	1920-66																			
SEMINARY GA	1960-66																			
COLUMBIA UNION	1920-66	10	3	1			5	4			1	1		14			5	4		5
COLLEGE MD	1960-66	4	1	1			2	2						6			2	2		2
COLUMBIA	1920-66	823	108	179	21	15	247	37	37	63	226	83	40	273	3	104	71	33	1	61
UNIVERSITY N Y	1960-66	316	49	61	19	12	79	28	23	23	104	30	25	83	1	38	22	14		8
COLUMBIA UNIV	1920-66	18	2	6	2		6			3	1	1		4		2				2
TEACH COLL N Y	1960-66																			
CONCORD	1920-66	6		1			3			2				12		1	2	5		4
COLLEGE W VA	1960-66	2		1						1				7		1	1	4		1
CONCORDIA	1920-66	39	10	16	1	2	12	2	5		1			25	1	1	6	7	1	9
COLLEGE MINN	1960-66	15	5	5		2	4	1	2		1			19	1	1	5	7	1	4
CONCORDIA	1920-66	1					1							2						2
SEMINARY MO	1960-66																			
CONCORDIA SR	1920-66																			
COLLEGE IND	1960-66																			
CONCORDIA TEACH	1920-66	4	2	1		1	1	1						3		1	1			1
COLLEGE ILL	1960-66	2	1				1	1						2			1			1
CONCORDIA TEACH	1920-66																			
COLLEGE NEBR	1960-66																			
CONCORDIA THEOL	1920-66	1		1																
SEMINARY ILL	1960-66																			
CONNECTICUT	1920-66	6	1				5		1					15		1	5	2	1	6
COLLEGE	1960-66	1					1		1					2				1	1	
CONNECTICUT,	1920-66	143	6	14		5	68	11	16	14	41		10	229	35	32	33	83	1	45
UNIVERSITY OF	1960-66	85	4	10		5	32	11	11	9	30		7	75	15	9	13	23		15
CONVERSE	1920-66																			
COLLEGE S C	1960-66																			
COOPER	1920-66	260	21	38	2	9	39	6	5	1	161	40	29	6		1	4	1		
UNION N Y	1960-66	140	9	16	2	7	10	5	3		105	27	20							
COPPIN STATE	1920-66																			
COLLEGE MD	1960-66																			
CORNELL	1920-66	83	12	13			43	9	4	11	4		1	31		1	20	3	1	6
COLLEGE IOWA	1960-66	14	1	1			5	1	1	7				12			8	1	1	2
CORNELL	1920-66	1047	100	230	17	32	346	66	49	78	293	52	47	902	207	71	159	237	21	207
UNIVERSITY N Y	1960-66	380	47	85	14	26	73	28	27	32	143	32	27	262	54	30	69	56	8	45
CORPUS CHRISTI,	1920-66																			
UNIVERSITY OF	1960-66																			
CORTLAND,	1920-66	1									1			3			1	2		
SUNY COLL AT	1960-66	1									1			2				2		
CREIGHTON	1920-66	34	7	2			24	6	5		1			32		8	12	8		4
UNIV NEBR	1960-66	12	4	1			7	2	1					13		2	6	4		1
CULVER-STOCKTON	1920-66	15	1	2			12	2						1						1
COLLEGE MO	1960-66	6	1	1			4	1												
CUMBERLAND COLL	1920-66	1					1													
OF TENNESSEE	1960-66																			
CURRY COLLEGE	1920-66																			
MASS	1960-66																			
CURTIS INST OF	1920-66																			
MUSIC PA	1960-66																			
DAKOTA WESLEYAN	1920-66	18	1	1			15	5			1			6		1		3		2
UNIVERSITY S D	1960-66	1					1							1				1		

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
204	74	12	24	56	21	138	45	37	25	2	9	10	9	38	26	3	112	1006	COLORADO,
92	36	7	8	24	11	47	14	12	6		5	4	6	27	21	2	54	403	UNIVERSITY OF
						3		1	2					1		1	2	6	COLUMBIA BIBLE
						3		1	2								2	5	UNIVERSITY S C
						1							1				1	7	COLUMBIA
						1							1					1	COLLEGE ILL
						4	2	2										4	COLUMBIA
						1		1										1	COLLEGE S C
1					1													1	COLUMBIA THEOL SEMINARY GA
5	2		1		2	19	7	1	3	2	2	3	1	1		1	16	65	COLUMBIA UNION
2	1		1			6	2					3	1	1		1	7	26	COLLEGE MD
463	187	40	40	112	64	592	147	160	127	19	89	6	40	88	33	22	489	2728	COLUMBIA
177	79	15	10	34	32	196	47	68	35	6	16	3	20	16	8	3	49	837	UNIVERSITY N Y
23	13	1	3	5		20	1	8	4		2	2	3	3		1	138	206	COLUMBIA UNIV
						5			1			1	3				45	50	TEACH COLL N Y
6	1		1		4	8	4	3				1		1		1	16	49	CONCORD
4			1		3	4	1	2				1					9	26	COLLEGE W VA
24	16		2	3	3	21	4	7	1			2	7	6	2	3	26	141	CONCORDIA
11	9			1	1	9	1	3				2	3	4	1	3	15	73	COLLEGE MINN
18	8		7		2	56	14	8	12	16	4		2	13		13	17	107	CONCORDIA
9	4		3		1	23	6	4	2	7	2		2	7		7	10	49	SEMINARY MO
														1		1		1	CONCORDIA SR
														1		1		1	COLLEGE IND
4	2				1	6	3						3				30	47	CONCORDIA TEACH
						6	3						3				23	33	COLLEGE ILL
4	2		1			8	4	3	1								10	22	CONCORDIA TEACH
3	2					7	3	3	1								9	19	COLLEGE NEBR
						3	1		1		1			2		2		6	CONCORDIA THEOL
														1		1		1	SEMINARY ILL
13	10		1	1	1	11	1	2	5	1	2			1		1	4	50	CONNECTICUT
5	4			1		2			1		1						1	11	COLLEGE
126	68	1	13	33	9	46	15	17	8		2	3	1	6	4	1	51	601	CONNECTICUT,
55	29	1	8	11	4	33	10	13	5		2	2	1	5	4		26	279	UNIVERSITY OF
1			1			4	1	1	1			1					6	11	CONVERSE
						1	1										3	4	COLLEGE S C
6	4			2										2	2			274	COOPER
2	2													1	1			143	UNION N Y
																	1	1	COPPIN STATE COLLEGE MD
40	13	2	7	9	8	37	10	16	2		2	4	1	16	1	9	60	267	CORNELL
10	4	2	1	1	2	12	3	6	1				1	5	1	2	16	69	COLLEGE IOWA
426	124	28	35	176	52	338	68	121	59	19	26	23	13	67	34	8	163	2943	CORNELL
164	51	12	6	68	21	99	24	37	15	2	8	6	5	30	19	3	50	985	UNIVERSITY N Y
						2	2										7	9	CORPUS CHRISTI,
						2	2										5	7	UNIVERSITY OF
3	1		2			5	1	2	1			1					60	72	CORTLAND,
3	1		2			5	1	2	1			1					33	44	SUNY COLL AT
17	7		2	6	2	34	14	7	2	3	7			14	10	2	14	145	CREIGHTON
6	1		1	3	1	8	3	4			1			5	4		2	46	UNIV NEBR
2	1			1		5		1			1	1	2	3		2	11	37	CULVER-STOCKTON
														1			2	9	COLLEGE MO
2			1		1	4		3	1								6	13	CUMBERLAND COLL
																	1	1	OF TENNESSEE
						1						1					2	3	CURRY COLLEGE
						1						1					1	2	MASS
						6							6					6	CURTIS INST OF
						3							3					3	MUSIC PA
12	7		2	1	2	9	2	3				3	1	4		4	24	73	DAKOTA WESLEYAN
2	1		1			2		1				1		1		1	8	15	UNIVERSITY S D

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
DALLAS,	1920-66	1		1		1														
UNIVERSITY OF	1960-66	1		1		1														
DANA COLLEGE	1920-66	8	1				7	2	3					2			1			1
NEBR	1960-66	6	1				5	1	3					2			1			1
DANBURY STATE	1920-66																			
COLLEGE CONN	1960-66																			
DARTMOUTH	1920-66	284	29	39	1	2	124	26	12	64	28	5	7	131	11	18	24	24	3	51
COLLEGE N H	1960-66	110	19	15	1	2	28	18	7	29	19	2	6	43	6	5	16	7	2	7
DAVID LIPSCOMB	1920-66	12	2	2		1	8	3	3					5				1		4
COLLEGE TENN	1960-66	8	1	1		1	6	2	3					4				1		3
DAVIDSON	1920-66	89	9	28		5	49	13	2		3		1	18		2	6	3	1	6
COLLEGE N C	1960-66	34	5	6		4	21	12	1		2		1	7		1	3	1	1	1
DAVIS & ELKINS	1920-66	8	1	1			6	2						11	1	2	3	1		4
COLLEGE W VA	1960-66	3		1			2	2						5	1	2		1		1
DAYTON,	1920-66	107	23	13	2	2	30	6	4	4	37	11	7	21			9	8		4
UNIVERSITY OF	1960-66	58	12	6	2	1	13	5	2	3	24	7	7	6			4	1		1
DEFIANCE	1920-66	6	1	1			4	1	1					5		1	1	1		2
COLLEGE OHIO	1960-66	2		1			1		1					3				1		2
DELAWARE	1920-66	1									1	1								
STATE COLLEGE	1960-66																			
DELAWARE,	1920-66	95	7	9		3	42	17	4		37	19	2	63	28	2	7	15	1	10
UNIVERSITY OF	1960-66	50	3	6		2	16	12	3		25	12	2	34	12		6	10	1	5
DELAWARE VAL	1920-66	2					2							14	8		3	3		
COLL SCI AG PA	1960-66	2					2							14	8		3	3		
DELTA STATE	1920-66	3	2				1							8		3	2	2		1
COLLEGE MISS	1960-66	1					1							8		3	2	2		1
DENISON	1920-66	95	16	24		3	33	6	4	22				27	1	1	6	8	1	10
UNIV OHIO	1960-66	15	2	6		3	4	2	1	3				5		1	2	1		1
DENVER,	1920-66	104	8	19		3	52	16	7	1	24	6	8	72	3	6	37	11	2	13
UNIVERSITY OF	1960-66	21	3	2			7	5	1	1	8	1	4	16	1	3	5	4	1	2
DEPAUL	1920-66	70	14	16	1	2	39	14	6		1			21		1	8	5		7
UNIVERSITY ILL	1960-66	33	7	10	1	2	15	6	6		1			8			4	3		1
DEPAUW	1920-66	197	12	41	1	6	110	24	7	28	6	1	2	124	7	9	35	16	1	56
UNIVERSITY IND	1960-66	40	7	10	1	3	13	10	3	7	3		1	18	2	1	8	2	1	4
DETROIT BIBLE	1920-66	1					1													
COLLEGE	1960-66																			
DETROIT INST	1920-66																			
OF MUSICAL ART	1960-66																			
DETROIT INST	1920-66	6					4				2		1	2			1	1		
OF TECHNOLOGY	1960-66													2			1	1		
DETROIT,	1920-66	99	10	7	2	3	40	10	3		42	11	4	26	1	3	12	6		4
UNIVERSITY OF	1960-66	56	6	6	2	2	13	6	2		31	7	4	15	1	1	8	4		1
DICKINSON	1920-66	38	3	7			26	4		1	1			17	1	2	6	5		3
COLLEGE PA	1960-66	7	2	2			3	2						4		1	1	1		1
DICKINSON STATE	1920-66	1	1																	
COLLEGE N D	1960-66	1	1																	
DILLARD	1920-66	7	1				6	1	2					4		1	1			2
UNIVERSITY LA	1960-66	4	1				3	1	2					1						1
D C TEACHERS	1920-66	6	2	2			2		1					5			1	1		3
COLLEGE	1960-66													2				1		1
DIVINE WORD	1920-66	2		2		2														
SEMINARY ILL	1960-66	1		1		1														
DIV SCH PROT	1920-66																			
EPIS CHURCH PA	1960-66																			
DOANE	1920-66	20		5		1	14	3	1	1				10	1		3			6
COLLEGE NEBR	1960-66	3		2		1	1	1						2			1			1
DOMINICAN	1920-66	1	1																	
COLLEGE WISC	1960-66																			
DOMIN COLL OF	1920-66	1					1	1						1			1			
SAN RAFAEL CAL	1960-66													1			1			

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
						2	1	1										3	DALLAS,
						2	1	1										3	UNIVERSITY OF
3	2		1			4	1	2				1		2	1	1	6	25	DANA COLLEGE
						3	1	1				1		1		1	5	17	NEBR
3	2				1												7	10	DANBURY STATE
1	1																2	3	COLLEGE CONN
203	66	9	26	44	50	257	84	77	53	7	18	3	10	42	22	9	80	997	DARTMOUTH
77	27	3	5	17	20	70	22	26	13		4	1	4	18	12	5	29	347	COLLEGE N H
5	5					23	5	6		2		10		6	1	4	14	65	DAVID LIPSCOMB
3	3					23	5	6		2		10		5	1	3	12	55	COLLEGE TENN
41	17	2	3	12	7	84	32	20	19	4	4	1	4	27	2	23	31	290	DAVIDSON
18	7	2	1	5	3	33	11	7	6	2	2	1	4	13	2	11	9	114	COLLEGE N C
7	2		2	1	2	3		2			1			2	2		7	38	DAVIS & ELKINS
2	1		1											1	1		2	13	COLLEGE W VA
22	7		7	4	3	40	9	13	6	3	7	1	1	8	2	5	27	225	DAYTON,
5	2			1	2	18	7	4	4		2		1	2	1	1	13	102	UNIVERSITY OF
1			1			1	1										12	25	DEFIANCE
																	2	7	COLLEGE OHIO
1				1													2	4	DELAWARE
																	2	2	STATE COLLEGE
24	15	1	2	4	2	32	13	6	8			2	2	4	1	2	21	239	DELAWARE,
12	10			2		8	5	1	1			1		2		1	11	117	UNIVERSITY OF
																		16	DELAWARE VAL
																		16	COLL SCI AG PA
1					1	8	3	4					1	1			11	32	DELTA STATE
1					1	4	2	1					1	1			5	20	COLLEGE MISS
80	40	1	12	11	10	60	18	18	5	3	2	11	2	12	2	9	34	308	DENISON
30	16	1	4	4	4	23	9	5				8		3	1	2	9	85	UNIV OHIO
139	76	9	11	18	16	83	15	26	5	2	2	27	4	34	20	10	157	589	DENVER,
56	27	3	5	9	5	24	6	4	1		1	11		13	11	1	63	193	UNIVERSITY OF
31	9	1	3	9	3	55	9	20	5	3	6	3	6	16	10	4	34	227	DEPAUL
13	2		2	5	2	17	4	9			1	1	2	4	4		13	88	UNIVERSITY ILL
129	67	2	17	20	20	124	33	36	15	6	11	17	6	39	6	27	76	689	DEPAUW
48	32		1	7	7	28	6	11	3		2	3	3	14	3	9	19	167	UNIVERSITY IND
																		1	DETROIT BIBLE
																			COLLEGE
																	3	3	DETROIT INST
																	1	1	OF MUSICAL ART
2	2					1			1					1				12	DETROIT INST
2	2					1			1									5	OF TECHNOLOGY
25	14		3	4	4	39	7	20			8	2	1	13	9	2	21	223	DETROIT,
13	7		1	3	2	24	2	14			5	2	1	10	9		12	130	UNIVERSITY OF
36	17	1	7	2	9	62	17	19	15	2	6		1	12	1	9	49	214	DICKINSON
7	4				3	12	5	2	4		1			1	1		9	40	COLLEGE PA
4	1		1	1	1												11	16	DICKINSON STATE
1			1														6	8	COLLEGE N D
5	1		3			3			1			2		1		1	5	25	DILLARD
1			1			1						1		1		1	4	12	UNIVERSITY LA
1	1					3		3						1	1		28	44	D C TEACHERS
						1		1						1	1		11	15	COLLEGE
2	1	1				2		1				1		1		1	1	8	DIVINE WORD
2	1	1				2		1				1		1		1		6	SEMINARY ILL
1	1													1		1		2	DIV SCH PROT
																			EPIS CHURCH PA
22	7		3	11	1	9	6	2				1		2		1	14	77	DOANE
3	1		1	1		5	2	2				1		1		1	9	23	COLLEGE NEBR
																	1	2	DOMINICAN
																	1	1	COLLEGE WISC
						7	2	4		1				1		1	1	11	DOMIN COLL OF
						4	2	1		1				1		1		6	SAN RAFAEL CAL

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
DON BOSCO	1920-66													1				1		
COLLEGE N J	1960-66																			
DOUGLASS	1920-66	10	3				7	2	1					12	2		3	3		4
COLLEGE N J	1960-66	5	1				4	2	1					2			1	1		
DOWNSTATE MED	1920-66													4		3				1
CENTER N Y	1960-66													4		3				1
DRAKE UNIV	1920-66	26	4	6			15	1	1	1				33		10	12	4		7
IOWA	1960-66	4		1			3							9		4	4	1		
DREW	1920-66	44	4	7			32	6	5	1				29	3		8	3		15
UNIVERSITY N J	1960-66	16	3	1			11	4	4	1				12			3	3		6
DREXEL INST OF	1920-66	158		20	3	5	32	12	7	1	105	25	17	4		1	2	1		
TECHNOLOGY PA	1960-66	100		14	3	4	16	10	5	1	69	14	12	1				1		
DROPSIE	1920-66																			
COLLEGE PA	1960-66																			
DRURY	1920-66	29	4	5			12	3		6	2			16	2		6	3		5
COLLEGE MO	1960-66	5	2				1			1	1			4			3	1		
DUBUQUE,	1920-66	10		1			9	3	1					13		2	5	3		3
UNIVERSITY OF	1960-66	2					2	1						8		2	5	1		
DUCHESNE COL OF	1920-66	3					3	1												
SACRED HT NEBR	1960-66	1					1													
DUKE UNIVERSITY	1920-66	207	24	49	3	3	84	23	13	10	40	1	11	83	9	3	27	18		26
N CAR	1960-66	91	10	18	1	3	28	15	8	7	28	1	7	33	4	1	11	10		7
DUNBARTON COLL	1920-66	2					2		1											
OF HOLY CR D C	1960-66																			
DUNS SCOTUS	1920-66																			
COLLEGE MICH	1960-66																			
DUQUESNE	1920-66	49	6	2		1	40	11	6	1				29	1	15	6	3		4
UNIVERSITY PA	1960-66	20	2	2		1	16	6	4					15		8	4	2		1
DYOUVILLE	1920-66	2					2		1					3			2	1		
COLLEGE N Y	1960-66	1					1		1					2			1	1		
EARLHAM	1920-66	44	4	12		1	24	8	4	4				54	2	4	8	10	3	27
COLLEGE IND	1960-66	15	2	2		1	9	5	3	2				18	1	2	3	3	3	6
EAST CAROLINA	1920-66	5	1				4		2					8	1		1	1	2	3
COLLEGE N C	1960-66	5	1				4		2					6			1	1	2	2
EAST CENTRAL	1920-66	2	1				1							10			2	2		6
STATE COL OKLA	1960-66	2	1				1							6			2			4
E STROUDSBURG	1920-66													6	2		1	1	1	1
STATE COLL PA	1960-66													5	2			1	1	1
EAST TENNESSEE	1920-66	16	2	1			13	1	4					7			4	1		2
STATE UNIV	1960-66	7	1				6	1	4					4			2	1		1
EAST TEXAS	1920-66	3	1				2	1						1			1			
BAPTIST COLL	1960-66	3	1				2	1						1			1			
EAST TEXAS	1920-66	27	4	5		3	18	5	4					8	2	1	2	1		2
STATE UNIV	1960-66	16	2	4		3	10	5	3					2	1					1
EASTERN BAPTIST	1920-66																			
COLLEGE PA	1960-66																			
EASTERN BAPT	1920-66																			
THEOL SEMIN PA	1960-66																			
EASTERN ILL	1920-66	25	6	4		1	13	2	2	2				45	9		1	5	3	27
UNIVERSITY	1960-66	13	3	3		1	6	2	2	1				18	4			1	3	10
EASTERN KEN-	1920-66	25	3	1			20	7	7		1		1	16	4	1	4	2		5
TUCKY ST COLL	1960-66	13	3				10	5	5					6		1	3			2
EASTERN	1920-66	36	2	7		1	23	2	3	2	2	2		20	1	3	1	6		9
MICHIGAN UNIV	1960-66	2		1		1	1							2				1		1
EASTERN	1920-66													2	1					1
MENNONITE C VA	1960-66													1						1
EASTERN MONTANA	1920-66	1	1											1						1
COLLEGE	1960-66	1	1											1						1
EASTERN NAZA-	1920-66	14	1				12	1	4		1			5			2	1		2
RENE COLL MASS	1960-66	9	1				7	1	4		1			3				1		2

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
						4		1		1	2			2		2	1	8	DON BOSCO
						3		1		1	1			1		1	1	5	COLLEGE N J
15	10		1		2	12	2	4	4	1			1				11	60	DOUGLASS
9	6				1	8	1	3	3	1							7	31	COLLEGE N J
																		4	DOWNSTATE MED
																		4	CENTER N Y
57	23		14	15	4	38	6	10	3	4	3	5	7	18	3	10	76	248	DRAKE UNIV
19	11		2	6		9	1	2	1		1	1	3	5	2	2	38	84	IOWA
25	17	1		4	3	22	8	7	5		2			10	1	9	15	145	DREW
9	4			3	2	10	2	4	3		1			3	1	2	3	53	UNIVERSITY N J
6	1		1	4		3	1	1	1					6	4		8	185	DREXEL INST OF
5	1		1	3		3			1					4	2		3	112	TECHNOLOGY PA
						1			1									1	DROPSIE
																			COLLEGE PA
19	4		4	7	4	23	7	4	4		3	3		11	5	6	30	128	DRURY
10	3		1	3	3	7	2	1	1		1	2		4	2	2	9	39	COLLEGE MO
17	8		5	2	2	13	6	1	3		3			6		6	13	72	DUBUQUE,
3	1				2	3	1		1		1			1		1	6	23	UNIVERSITY OF
2	1		1			8	3	4			1						5	18	DUCHESNE COL OF
						1		1									2	4	SACRED HT NEBR
122	51	4	10	33	21	136	45	48	21	6	9	3	2	44	5	34	78	670	DUKE UNIVERSITY
55	30	2	3	17	6	53	16	22	12	1	2			22	4	18	35	289	N CAR
														1		1		3	DUNBARTON COLL
														1		1		1	OF HOLY CR D C
3	2		1			7	3		1	2	1			7		7	1	18	DUNS SCOTUS
						3	2			1				2		2		5	COLLEGE MICH
29	13		2	8	4	31	4	14	3	6	2	1	1	4	2	2	47	189	DUQUESNE
14	5		2	2	4	11	1	6	1		1	1	1	2	2		19	81	UNIVERSITY PA
2	1		1			14	5	1	3	2	2			1		1	5	27	DYOUVILLE
						4	1	1	1		1						2	9	COLLEGE N Y
37	10	5	5	5	11	53	19	13	5	3	4	7	2	4	1	2	19	211	EARLHAM
14	4	2	2		5	16	4	6		1	2	3					8	71	COLLEGE IND
4	2					4	2					1	1	1	1		35	57	EAST CAROLINA
2	1					4	2					1	1				24	41	COLLEGE N C
3	1				2	12	4	2				4	2				44	71	EAST CENTRAL
						4		2				1	1				22	34	STATE COL OKLA
4	1				2	1	1										43	54	E STROUDSBURG
2	1				1												20	27	STATE COLL PA
6				2	2	10	5	2				2	1	1		1	41	81	EAST TENNESSEE
3				2		5	3	1				1					25	44	STATE UNIV
2	2																4	10	EAST TEXAS
2	2																3	9	BAPTIST COLL
10	4		2	2	2	28	7	14	4			3		5	3		80	158	EAST TEXAS
3	2				1	6	1	2	2			1		2	2		36	65	STATE UNIV
3	2		1			2		1		1				1		1	3	9	EASTERN BAPTIST
3	2		1			2		1		1				1		1	1	7	COLLEGE PA
1					1	3	2		1					4		4	5	13	EASTERN BAPT
														1		1	2	3	THEOL SEMIN PA
15		1		4	5	33	5	8	4			11	5	5	3		62	185	EASTERN ILL
3		1				16	1	3	3			7	2	3	1		26	79	UNIVERSITY
2				2		7	2	4				1		5	2		44	99	EASTERN KEN-
						2		2						1			20	42	TUCKY ST COLL
21	9	1	4	1	3	22	6	5	2		1	8		1	1		128	228	EASTERN
8	2		3		1	5		1				4		1	1		51	69	MICHIGAN UNIV
2			2											1			7	12	EASTERN
2			2											1			7	11	MENNONITE C VA
																	2	4	EASTERN MONTANA
																	2	4	COLLEGE
5	1			3	1	13	5	2			3	3		5		5	7	49	EASTERN NAZA-
5	1			3	1	6	3	2				1		3		3	5	31	RENE COLL MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
EASTERN NEW MEXICO UNIV	1920-66	9	3				6	2	2					3			2	1		
	1960-66	6	3				3	2	1					2			1	1		
EASTERN OREGON COLLEGE	1920-66																			
	1960-66																			
EASTERN WASH STATE COLLEGE	1920-66	3	1				2		1					8	1		1	2		4
	1960-66	1					1							5	1		1	2		1
EDEN THEOL SEMINARY MO	1920-66																			
	1960-66																			
EDGEWOOD COL OF SACRED HT WISC	1920-66													1						1
	1960-66													1						1
EDINBORO STATE COLL PA	1920-66	3	1				2	1	1					4	1		1	1		1
	1960-66	2					2	1	1					2				1		1
ELIZABETH CITY STATE COLL N C	1920-66	1					1													
	1960-66																			
ELIZABETHTOWN COLLEGE PA	1920-66	13		2		1	11	4						5			3	1		1
	1960-66	7		1		1	6	1						2			2			
ELLENDALE STATE TEACH COLL N D	1920-66																			
	1960-66																			
ELMHURST COLLEGE ILL	1920-66	10	1				9	2	2					17	2		5	5		5
	1960-66	2	1				1	1						11	1		3	3		4
ELMIRA COLLEGE N Y	1920-66	2					2							5			3	2		
	1960-66													1			1			
ELON COLLEGE N CAR	1920-66	6		2			3	1	1			1		6	1		1			4
	1960-66	2		1			1	1												
EMERSON COLLEGE MASS	1920-66																			
	1960-66																			
EMMANUEL COLLEGE MASS	1920-66	10	5				5	2	1					7		1	2		1	3
	1960-66	3	1				2	1						3			1		1	1
EMORY AND HENRY COLLEGE VA	1920-66	22	1	6			14	3	4	1				5	1			2		2
	1960-66	6		1			5	2	3					2				2		
EMORY UNIVERSITY GA	1920-66	157	9	19			112	28	9	12	5	1		88	3	7	18	20	3	37
	1960-66	42	4	6			25	16	6	5	2			21	1	3	3	8	2	4
EMPORIA, COLL OF, KAN	1920-66	11	2	5			4							5		1	2	1		1
	1960-66																			
EPISCOPAL THEOL SCHOOL MASS	1920-66																			
	1960-66																			
ERSKINE COLLEGE S C	1920-66	14	1				12	3			1			3		1	2			
	1960-66	3					3	2						1			1			
EUREKA COLLEGE ILL	1920-66	7	1				6	1						3		1	2			
	1960-66	1					1													
EVANSVILLE COLLEGE IND	1920-66	29	2	3			20	4	3		4		2	9		1	3	2	1	2
	1960-66	11		1			6	2	2		4		2	6			2	1	1	2
FAIRFIELD UNIV CONN	1920-66	14	1	5	1		7	5			1			6			4	2		
	1960-66	12	1	4	1		6	5			1			3			2	1		
FAIRLEIGH DICKINSON UNIV N J	1920-66	14	2	1			9	7	1		2		2	5		1	3	1		
	1960-66	14	2	1			9	7	1		2		2	5		1	3	1		
FAIRMONT STATE COLLEGE W VA	1920-66	8	1	5		1	2	1						8	4	1				3
	1960-66	3		2		1	1	1						1	1					
FAITH THEOL SEMINARY PA	1920-66																			
	1960-66																			
FARMINGTON STATE COLL ME	1920-66																			
	1960-66																			
FAYETTEVILLE STATE COLL N C	1920-66																			
	1960-66																			
FERRIS STATE COLLEGE MICH	1920-66	2					2							7		6	1			
	1960-66	1					1							6		5	1			
FINDLAY COLLEGE OHIO	1920-66	3	1				2	1												
	1960-66																			
FISK UNIVERSITY TENN	1920-66	16	4	5	2	1	7	4	1					10		1		4		5
	1960-66	11	4	3	2	1	4	3	1					3				1		2

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	1			1	9	3	2	1			1	2					13	36	EASTERN NEW
2	1			1	5	2	2					1					9	24	MEXICO UNIV
																	14	14	EASTERN OREGON
																	10	10	COLLEGE
10	2	3	2	1	7	1	1		1		3	1					47	75	EASTERN WASH
3	1	1		1	3		1		1			1					25	37	STATE COLLEGE
													3		3			3	EDEN THEOL
													1		1			1	SEMINARY MO
					2		1			1							1	4	EDGEWOOD COL OF
																	1	2	SACRED HT WISC
3			2		6	1	1				3	1					41	57	EDINBORO
1					2						2						21	28	STATE COLL PA
																	2	3	ELIZABETH CITY
																	1	1	STATE COLL N C
7	2	4		1	6	1		4	1				5		4		25	61	ELIZABETHTOWN
3	2			1	2	1		1					1		1		5	20	COLLEGE PA
1	1																10	11	ELLENDALE STATE
																	5	5	TEACH COLL N D
11	5	4	1		12	5	4	2			1		14		14		9	73	ELMHURST
5	4		1		6	3	1	2					6		6		3	33	COLLEGE ILL
4	3	1			7		4	2			1						11	29	ELMIRA
					2		1	1									3	6	COLLEGE N Y
1	1				5	1	2		1	1			3	1	2		15	36	ELON COLLEGE
1	1				2	1	1						1		1		5	11	N CAR
					23		2				20	1					6	29	EMERSON
					14						13	1					2	16	COLLEGE MASS
2	1	1			17	4	11	1	1				1		1		9	46	EMMANUEL
2	1	1			8	2	6										6	22	COLLEGE MASS
16	4	3	5	3	20	8	10	2					5		5		17	85	EMORY AND HENRY
1	1				3	1	2						1		1		7	20	COLLEGE VA
83	43	1 10	7	19	132	36	30	35	3	20	2	3	24	2	18	37		521	EMORY
42	23	3	5	10	42	11	7	10		12	1		9	1	7	18		174	UNIVERSITY GA
9	5	3		1	16	8	3	1		2		2	5	1	2		23	69	EMPORIA,
					2	2											5	7	COLL OF, KAN
1		1											1		1			2	EPISCOPAL THEOL
																			SCHOOL MASS
3		1	1	1	15	4	6	4					4		2		13	52	ERSKINE
					3	1	2						1		1		3	11	COLLEGE S C
3	2		1		10	3	3	1	1		2		4		3		10	37	EUREKA
1	1				1						1						5	8	COLLEGE ILL
10	5	3	1	1	7	2	2			1	2		8	3	4		22	85	EVANSVILLE
5	5				4	1	1				2		2	1	1		11	39	COLLEGE IND
2	1			1	4		3	1									5	31	FAIRFIELD UNIV
2	1			1	4		3	1									5	26	CONN
1			1		2	1	1										3	25	FAIRLEIGH DICK-
1			1		2	1	1										2	24	INSON UNIV N J
2	1	1			11	2	1	1	1		6		1	1			18	48	FAIRMONT STATE
1		1			6	1		1			4						5	16	COLLEGE W VA
					1			1										1	FAITH THEOL
																			SEMINARY PA
					1	1											7	8	FARMINGTON
					1	1											5	6	STATE COLL ME
1		1															3	4	FAYETTEVILLE
																	2	2	STATE COLL N C
																	5	14	FERRIS STATE
																		7	COLLEGE MICH
4	4				6	3		1		1		1	5		5		13	31	FINDLAY
2	2				1			1					3		3		6	12	COLLEGE OHIO
17	5	9	3		19	8	4	4			1	2	3	1			33	98	FISK UNIVERSITY
4	2	1	1		4	1		1			1	1	1				13	36	TENN

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
FITCHBURG, STATE COLL AT, MASS	1920-66													2				1		1
	1960-66																			
FLORENCE STATE COLLEGE ALA	1920-66	5					5	1	4					6	1	2	1	1		1
	1960-66	2					2	1	1					5	1	1	1	1		1
FLORIDA AGRIC AND MECH UNIV	1920-66	2					2		1					5	3	1				1
	1960-66	2					2		1					3	2	1				
FLORIDA SOUTHERN COLLEGE	1920-66	20	2	1			17	2						9	1	2		3	1	2
	1960-66	4	1				3							4	1	1		2		
FLORIDA STATE UNIVERSITY	1920-66	27	7	6		2	9	3		4	1			26		2	6	8		10
	1960-66	18	5	6		2	3	1		3	1			13			4	6		3
FLORIDA, UNIVERSITY OF	1920-66	276	35	46	6	7	119	18	14	7	69	16	22	216	80	27	25	40	4	40
	1960-66	133	13	28	5	7	31	11	8	4	57	12	19	72	29	4	12	15	2	10
FONTBONNE COLLEGE MO	1920-66	5	1				4	1						1			1			
	1960-66	2					2	1						1			1			
FORDHAM UNIVERSITY N Y	1920-66	181	18	32	3	6	124	58	19	2	5	2		98	2	19	34	18		25
	1960-66	89	13	21	3	5	51	28	12	1	3	2		29	2	12	6	6		3
FORESTRY, C OF, AT SYRACUSE	1920-66	13		1			12	5	6					46	24		2	11	1	8
	1960-66	8					8	2	5					29	13		2	9		5
FORT HAYS KANSAS ST COLL	1920-66	25	5	3			17	5	2					27	8	1	4	2	2	10
	1960-66	8	1				7	4	1					13	5	1	2	1	1	3
FORT VALLEY STATE COLL GA	1920-66																			
	1960-66																			
FORT WAYNE BIBLE COLLEGE	1920-66																			
	1960-66																			
FT WRIGHT C OF HOLY NMS WASH	1920-66													1				1		
	1960-66													1				1		
FRAMINGHAM, ST COL AT, MASS	1920-66													4		1	3			
	1960-66													1			1			
FRANKLIN & MARSHALL COLL PA	1920-66	179	8	26	2	4	116	21	12	26	3	1		48	2	4	17	12		13
	1960-66	63	3	9	1	3	31	14	9	19	1			15			7	3		5
FRANKLIN COLL OF INDIANA	1920-66	14	1	3			10	3						7			1	2		4
	1960-66	1					1	1						2						2
FRANKLIN UNIV OHIO	1920-66	1					1													
	1960-66																			
FREDONIA, SUNY COLL AT	1920-66													1				1		
	1960-66													1				1		
FREE WILL BAPT BIBLE COL TENN	1920-66																			
	1960-66																			
FRESNO STATE COLLEGE CAL	1920-66	53	7	12		1	29	10	4	5				30	4	1	6	8		11
	1960-66	33	4	7		1	20	9	4	2				16	3		5	5		3
FRIENDS UNIVERSITY KAN	1920-66	16	1	10		1	5		1					9			1	4		4
	1960-66	5	1	2		1	2		1					3			1			2
FROSTBURG STATE COLLEGE MD	1920-66	1	1											1			1			
	1960-66	1	1											1			1			
FULLER THEOLOG SEMINARY CAL	1920-66	1					1													
	1960-66																			
FURMAN UNIVERSITY S C	1920-66	38	2	12		1	23	3	5	1				23		1	4	4		14
	1960-66	11		3		1	8	3	4					6		1	2	1		2
GALLAUDET COLLEGE D C	1920-66																			
	1960-66																			
GANNON COLLEGE PA	1920-66	8	1				7	2	2					1			1			
	1960-66	4	1				3	1	2											
GARRETT BIBLICAL INST ILL	1920-66																			
	1960-66																			
GENERAL BEADLE STATE COLL S D	1920-66	2					2													
	1960-66																			
GENERAL MOTORS INSTITUTE MICH	1920-66	16	1								15									
	1960-66	16	1								15									
GENERAL THEOLOG SEMINARY N Y	1920-66																			
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
1						2	1					1					39	44	FITCHBURG, STATE
1						1						1					20	22	COLL AT, MASS
2				2		3	3										17	33	FLORENCE STATE
2				2		1	1										10	20	COLLEGE ALA
6			2	2	2	1	1							3			17	34	FLORIDA AGRIC
4			1	1	2									2			10	21	AND MECH UNIV
8	1		1	1	3	15	4	3	5			2	1	5		5	22	79	FLORIDA SOUTH-
4	1				2	4	2	2						3		3	11	30	ERN COLLEGE
75	45	3	9	7	7	47	12	11	11	1	3	5	4	10	4	2	94	279	FLORIDA STATE
49	29	2	5	6	3	29	8	8	5		1	3	4	8	4	2	68	185	UNIVERSITY
161	78	3	14	38	26	87	24	33	9	2	4	11	3	16	9	4	160	916	FLORIDA,
70	32	2	3	15	18	33	10	10	2	2	2	3	3	9	6	3	76	393	UNIVERSITY OF
1	1					11	3	3		2	2		1	2		2	5	25	FONTBONNE
						2	2							2		2	4	11	COLLEGE MO
125	71	1	10	21	21	171	33	34	26	18	49	2	1	16	2	4	104	695	FORDHAM
50	28	1	8	8	4	50	11	14	5	8	9	1	1	4	1	3	33	255	UNIVERSITY N Y
3				1										1	1		1	64	FORESTRY, C OF,
2				1										1	1		1	41	AT SYRACUSE
35	19		3	5	7	15	6	3			1	3	2	2	1	1	46	150	FORT HAYS
5	2			2	1	10	6	2			1	1		1	1		21	58	KANSAS ST COLL
																	9	10	FORT VALLEY
1																	8	9	STATE COLL GA
						1	1							1		1	3	5	FORT WAYNE
						1	1							1		1	2	4	BIBLE COLLEGE
																	4	5	FT WRIGHT C OF
																	3	4	HOLY NMS WASH
																	5	9	FRAMINGHAM,
																	3	4	ST COL AT, MASS
61	36	2	9	7	7	48	16	18	7	4	2		1	11	1	10	62	409	FRANKLIN & MAR-
17	13	1	1	1	1	10	3	3	3				1	2		2	7	114	SHALL COLL PA
6	2		1	2	1	23	6	4	1	4	4	4		6	1	5	24	80	FRANKLIN COLL
1					1	6	1	1			3	1		2		2	10	22	OF INDIANA
																		1	FRANKLIN UNIV OHIO
1	1					4		1				2	1	1		1	50	57	FREDONIA,
1	1					4		1				2	1	1		1	26	33	SUNY COLL AT
						1			1					1		1		2	FREE WILL BAPT
						1			1					1		1		2	BIBLE COL TENN
30	15	2	3	4	5	25	9	2	4		1	6	2	5	3	2	47	190	FRESNO STATE
12	4	2	2	1	2	9	2		3			3		3	3		22	95	COLLEGE CAL
6	5				1	10	4	1			1	2	2	4	1	3	18	63	FRIENDS
1	1					2							2	2		2	10	23	UNIVERSITY KAN
						1		1									6	9	FROSTBURG STATE
						1		1									4	7	COLLEGE MD
																		1	FULLER THEOLOG SEMINARY CAL
27	13	1	5		7	55	16	29	5		2	1	2	19	2	15	32	194	FURMAN
11	6		1		3	16	8	4	1			1	2	10	1	9	11	65	UNIVERSITY S C
																	1	1	GALLAUDET
																	1	1	COLLEGE D C
5	3		1		1	4	1	1	1		1			1	1		4	23	GANNON
4	2		1		1	4	1	1	1		1			1	1		4	17	COLLEGE PA
														2		2		2	GARRETT BIB- LICAL INST ILL
						2	1					1					7	11	GENERAL BRADLE
																	2	2	STATE COLL S D
5	5													3	3			24	GENERAL MOTORS
3	3													3	3			22	INSTITUTE MICH
														2		2		2	GENERAL THEOLOG SEMINARY N Y

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
GENESEO, SUNY COLL AT	1920-66	2	1				1	1												
	1960-66																			
GENEVA COLLEGE PA	1920-66	41	5	7	1		27	6	4		2		1	17	1	1	4	3		8
	1960-66	19	4	1	1		13	5	1		1		1	4	1		2			1
GEORGE FOX COLLEGE OREG	1920-66	1								1				1					1	
	1960-66													1					1	
GEO PEABODY COL FOR TEACH TENN	1920-66	6	1				5		1					22	2	1	6	1		12
	1960-66	1					1		1					9	1		3			5
GEO WASHINGTON UNIVERSITY D C	1920-66	165	17	34	2	7	86	4	11	9	19		4	139	5	26	39	27		42
	1960-66	43	7	11	1	4	13	1	6	2	10		3	30	1	3	14	7		5
GEORGE WILLIAMS COLLEGE ILL	1920-66	4		2			1		1		1			5			2	1		2
	1960-66													1				1		
GEORGETOWN COLLEGE KY	1920-66	28	9	6			13	2	2					3		1	1	1		
	1960-66	8	3	3			2		2											
GEORGETOWN UNIVERSITY D C	1920-66	43	8	10		1	21	3	3	2	2			26		4	12	5		5
	1960-66	18	5	5		1	7	2	2	1				8			5	2		1
GEORGIA INST OF TECHNOLOGY	1920-66	338	18	64	3	9	69	19	9	5	182	63	27	10			7	1	1	1
	1960-66	185	13	38	3	7	25	14	5	3	106	33	15	5			5			
WOMANS COLL OF GEORGIA	1920-66	4	2				2		1					4				4		
	1960-66	1					1		1											
GEORGIA STATE COLLEGE	1920-66	1					1							1				1		
	1960-66	1					1							1				1		
GEORGIA SOUTHERN COLLEGE	1920-66	1	1											9		1	2	2		4
	1960-66													6			2	2		2
GEORGIA, UNIVERSITY OF	1920-66	100	11	20	1	2	55	9	3	5	9			181	82	24	10	30	2	33
	1960-66	37	4	7	1	2	16	7	1	3	7			77	36	14	5	15	2	5
GEORGIAN COURT COLLEGE N J	1920-66	2	1				1							1			1			
	1960-66																			
GETTYSBURG COLLEGE PA	1920-66	71	7	15		3	45	17	3	1	3		1	28	3	3	9	6		7
	1960-66	22	1	8		3	12	9	2		1			10	2	1	4	2		1
GLASSBORO STATE COLLEGE N J	1920-66	1	1											1	1					
	1960-66	1	1											1	1					
GLENVILLE STATE COLLEGE W VA	1920-66	4					3		2		1			9	2	1	1	3		2
	1960-66	4					3		2		1			4	1	1	1	1		
GODDARD COLLEGE VT	1920-66																			
	1960-66																			
GOLDEN GATE COLLEGE CAL	1920-66																			
	1960-66																			
GONZAGA UNIV WASH	1920-66	40	4	6	1	2	19	2		1	10	6	1	9			1	5		3
	1960-66	16	1	3	1	2	4	1			8	5	1	5			1	4		
GOOD COUNSEL COLLEGE N Y	1920-66													1						1
	1960-66													1						1
GORDON COLLEGE MASS	1920-66																			
	1960-66																			
GORHAM STATE COLL ME	1920-66																			
	1960-66																			
GOSHEN COLLEGE IND	1920-66	20	2	5	1		11	5	2		2		1	21	3	1	5	1	1	10
	1960-66	10	1	3	1		5	3	2		1		1	7	2		4		1	
GOUCHER COLLEGE MD	1920-66	34	8	9			17	1	2					59		2	23	13		21
	1960-66	2		1			1		1					5		1	2	1		1
GRACE BIBLE INSTITUTE NEBR	1920-66																			
	1960-66																			
GRACELAND COLLEGE IOWA	1920-66																			
	1960-66																			
GRAMBLING COLLEGE LA	1920-66	1					1													
	1960-66	1					1													
GRAND CANYON COLLEGE ARIZ	1920-66																			
	1960-66																			
GREAT FALLS, COLL OF, MONT	1920-66	4	1				3	2	1					2		1		1		
	1960-66	3	1				2	1	1					2		1		1		

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
4	2	1				4						4					28	38	GENESEO,
1		1				3						3					18	22	SUNY COLL AT
21	15			4	2	14	4	5	1			4		5		3	44	142	GENEVA COLLEGE
3	2				1	2		2						3		2	14	45	PA
2			1		1	3	1		1					2		1	3	12	GEORGE FOX
																	2	3	COLLEGE OREG
36	21		1	3	1	45	10	15	7	2	1	4	6	3			131	243	GEO PEABODY COL
7	4					10	1	3	2		1	1	2				34	61	FOR TEACH TENN
169	81	4	4	39	37	113	45	25	13	1	15	9	3	36	14	3	65	687	GEO WASHINGTON
56	26	1	3	13	12	34	11	5	5		6	4	3	10	8		26	199	UNIVERSITY D C
7	4				2	1		1									19	36	GEORGE WILLIAMS
2					2	1		1									8	12	COLLEGE ILL
15	3		2	5	4	22	3	6	4	1	2	6		5	2	3	21	94	GEORGETOWN
2					2	5	1	1				3		2	1	1	9	26	COLLEGE KY
53	4		1	19	28	89	37	19	14	5	13	1		18	2	1	10	239	GEORGETOWN
21	1			7	13	34	12	7	11		3	1		5	1		4	90	UNIVERSITY D C
24	8			12	2	8	1	1	1		4			10	7	1	11	401	GEORGIA INST
11	5			4	2	4		1	1		2			7	6		4	216	OF TECHNOLOGY
2			1	1		4	2		1			1		4			18	36	WOMANS COLL
														2			7	10	OF GEORGIA
2				2										1	1		4	9	GEORGIA STATE
2				2										1	1		3	8	COLLEGE
3			2	1		14	6	6	1			1		1	1		43	71	GEORGIA SOUTH-
1				1		7	4	1	1			1					21	35	ERN COLLEGE
87	38		12	24	8	67	23	21	9	2	5		5	29	12	5	95	559	GEORGIA,
41	20		4	9	4	27	10	5	4		4		4	16	8	1	48	246	UNIVERSITY OF
						4	1	1	1		1			2		2	6	15	GEORGIAN COURT
						3	1	1	1								1	4	COLLEGE N J
36	20		3	3	9	45	15	13	5	4	6	2		20	1	18	39	239	GETTYSBURG
13	10		1		2	12	3	4	1	2	2			4		4	13	74	COLLEGE PA
2	1			1		3	2	1									34	41	GLASSBORO STATE
						2	2										14	18	COLLEGE N J
1			1			6	1	3				2		1			25	46	GLENVILLE STATE
						5		3				2					8	21	COLLEGE W VA
3	1		1	1													2	5	GODDARD
3	1		1	1													1	4	COLLEGE VT
						1							1				2	3	GOLDEN GATE
						1							1				1	2	COLLEGE CAL
35	15	1	7	5	7	71	27	19	4	5	15			10	1	6	17	182	GONZAGA
12	8	1	1		2	17	6	7		2	2			6	1	4	5	61	UNIV WASH
1					1	5	1	2		1	1						3	10	GOOD COUNSEL
						1		1									1	3	COLLEGE N Y
7	3		3			18	6		1	2	8	1		12		12	9	46	GORDON COLLEGE
3	2					7	5				1	1		4		4	4	18	MASS
1						3	2	1									14	18	GORHAM
1						2	1	1									7	10	STATE COLL ME
11	2		6	2		25	10	4	4			5	2	8		7	25	110	GOSHEN
3			2			11	3	1	2			3	2	5		4	13	49	COLLEGE IND
30	14	2	4	4	4	45	12	10	12	6	1	2	2	1		1	20	189	GOUCHER
8	2	1	1	2	1	9	2	2	2		1	1	1				1	25	COLLEGE MD
																	1	1	GRACE BIBLE
																	1	1	INSTITUTE NEBR
1	1																	1	GRACELAND
1	1																	1	COLLEGE IOWA
																	3	4	GRAMBLING
																		1	COLLEGE LA
1	1																1	2	GRAND CANYON
1	1																1	2	COLLEGE ARIZ
2	2					5	1	2			2			1		1	7	21	GREAT FALLS,
2	2					5	1	2			2			1		1	5	18	COLL OF, MONT

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
GREENSBORO	1920-66	1					1		1					2			2			
COLLEGE N C	1960-66													1			1			
GREENVILLE	1920-66	17	2	4		2	11	3						20	1	1	4	1		13
COLLEGE ILL	1960-66	2	1	1		1								5	1	1	1	1		1
GRINNELL	1920-66	90	7	15	2	5	62	19	10		6	1	1	39		6	8	8	1	16
COLLEGE IOWA	1960-66	32	1	9	1	5	19	10	4		3		1	18		3	4	5	1	5
GROVE CITY	1920-66	45	7	2			29	4	4		7	2	1	14		1	2	1	1	9
COLLEGE PA	1960-66	11	3				8	3	3					4			2	1		1
GUILFORD	1920-66	21	3	8		1	10	1						11		2	2	3		4
COLLEGE N C	1960-66	4		3		1	1							4			1	2		1
GUSTAVUS ADOL-	1920-66	18	1	1			15	6	5	1				27		1	6	9	1	10
PHUS COLL MINN	1960-66	9					9	6	2					9			1	6		2
HAHNEMANN MED	1920-66													2		1				1
COLL & HOSP PA	1960-66																			
HAMILTON	1920-66	68	14	8			34	8	7	10	2	1	1	30		4	14	5		7
COLLEGE N Y	1960-66	18	3	2			8	4	1	4	1		1	10		3	5			2
HAMLINE	1920-66	42	1	7		1	32	18	1	1	1			16	1	5	5	3		2
UNIV MINN	1960-66	14		5		1	8	8			1			6	1	2	2	1		
HAMPDEN COLL OF	1920-66													1			1			
PHARMACY MASS	1960-66													1			1			
HAMPDEN-SYDNEY	1920-66	32	3	11		1	18	4	1					9	1		1			7
COLLEGE VA	1960-66	5	1	1		1	3	3												
HAMPTON	1920-66	4		1	1		3	1	1					16	8	2	1	3		2
INSTITUTE VA	1960-66	2		1	1		1		1					4	1		1	2		
HANOVER	1920-66	30	5	2			17	3		5	1			15			4	3	1	7
COLLEGE IND	1960-66	8	3	1			2	1		2				7			2		1	4
HARDIN-SIMMONS	1920-66	12	4	1			4	1		3				9		1	5	3		
UNIVERSITY TEX	1960-66	4	3							1				2			2			
HARDING	1920-66	11					11	4	3					11	1		4	4	1	1
COLLEGE ARK	1960-66	6					6	4	2					4			3	1		
HARRIS TEACHERS	1920-66	2	2											4						4
COLLEGE MO	1960-66													2						2
HARTFORD,	1920-66	1	1																	
UNIVERSITY OF	1960-66	1	1																	
HARTT COLLEGE	1920-66																			
OF MUSIC CONN	1960-66																			
HARTFORD SEM	1920-66																			
FOUNDATN CONN	1960-66																			
HARTWICK	1920-66	9	1	1			7	4	1					10	1		3	3		3
COLLEGE N Y	1960-66	4					4	3	1					6	1		2	2		1
HARVARD	1920-66	1192	214	399	26	39	370	58	48	126	83	7	17	338	11	32	119	43	3	130
UNIV MASS	1960-66	376	100	122	24	25	84	39	27	37	33	2	9	103	4	8	51	20	1	19
HARVEY MUDD	1920-66	6	2				3	1			1									
COLLEGE CAL	1960-66	6	2				3	1			1									
HASTINGS	1920-66	34	4	10		1	19	9	2		1			12	2		4	1		5
COLLEGE NEBR	1960-66	11	2	1		1	7	5	2		1			4				1		3
HAVERFORD	1920-66	146	23	33			78	15	12	8	4	1		45	3	5	17	5		15
COLLEGE PA	1960-66	39	4	13			20	8	6	2				18	1	2	10	2		3
HAWAII,	1920-66	44	2	5			30	9	2	2	5			80	17	2	20	27		14
UNIVERSITY OF	1960-66	20	2	3			11	6		1	3			36	11		9	13		3
HEBREW TEACHERS	1920-66																			
COLLEGE MASS	1960-66																			
HEBREW UNION	1920-66																			
COLLEGE N Y	1960-66																			
HEBREW UNION	1920-66																			
COLLEGE OHIO	1960-66																			
HEIDELBERG	1920-66	19	2	7		1	9		1	1				19			5	4		10
COLLEGE OHIO	1960-66	6		3		1	2		1	1				6			3	1		2
HENDERSON STATE	1920-66	5	2	2			1							6			3	1	1	1
TEACH COLL ARK	1960-66	3	2	1										3			1	1		1

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	2					3	1	2									2	10	GREENSBORO
2	2																1	4	COLLEGE N C
16	8		4	1	2	26	7	8	1	2	2	5	1	7		7	42	128	GREENVILLE
6	2		1	1	1	12	2	4		1		4	1	1		1	16	42	COLLEGE ILL
60	29		4	12	13	79	18	30	4	3	6	14	4	8	2	3	36	312	GRINNELL
25	14		2	4	3	23	5	12			1	4	1	3	1	2	10	111	COLLEGE IOWA
7	2		2	3		15	7	4	2			2		6	1	4	50	137	GROVE CITY
5	1		2	2		8	4	1	2			1		2	1	1	11	41	COLLEGE PA
16	8		4	2	1	15	3	3	6		2	1		3		3	6	72	GUILFORD
4	2		1			2		1	1					2		2	4	20	COLLEGE N C
22	11		3	6	1	20	7	1	1	1	5	4	1	15		14	30	132	GUSTAVUS ADOL-
8	3			3	1	10	5	1			1	2	1	5		5	10	51	PHUS COLL MINN
																		2	HAHNEMANN MED
																			COLL & HOSP PA
35	15	1	2	5	9	100	18	36	22	9	5	5	2	11	2	6	30	274	HAMILTON
14	9	1		1	3	23	5	10	5	1	2			2	1	1	5	72	COLLEGE N Y
38	15	1	9	6	6	27	9	1	3		5	6	3	10		9	30	163	HAMLINE
9	2		2	2	2	10	2		1		2	3	2	3		3	5	47	UNIV MINN
																		1	HAMPDEN COLL OF
																		1	PHARMACY MASS
11	6			1	4	29	13	7	4	2	2			4		4	11	96	HAMPDEN-SYDNEY
						9	4	3		2				2		2	3	19	COLLEGE VA
6	1	1	1	3		5	1	1				2	1	5	2		48	84	HAMPTON
1			1			1	1										18	26	INSTITUTE VA
5	2				2	15	7	1	2	3		2		3	1	2	13	81	HANOVER
4	2				1	7	5					2		2	1	1	9	37	COLLEGE IND
8	5		1		2	18	3	9	2			2	2	9	4	3	32	88	HARDIN-SIMMONS
5	4				1	5	1	3					1	4	2	1	14	34	UNIVERSITY TEX
2	2					18	6	5				5	2	6	3	1	24	72	HARDING
1	1					9	2	2				4	1	4	2	1	14	38	COLLEGE ARK
2	1			1		8	2	2	1		1	1	1				26	42	HARRIS TEACHERS
2	1			1		1							1				15	20	COLLEGE MO
1	1																	2	HARTFORD,
1	1																	2	UNIVERSITY OF
						3							3					3	HARTT COLLEGE
						3							3					3	OF MUSIC CONN
1	1													2		2	4	7	HARTFORD SEM
																			FOUNDATN CONN
4	3				1	5	2	1				1					7	35	HARTWICK
1	1					1	1										4	16	COLLEGE N Y
757	204	89	76	203	157	1107	325	261	186	60	107	5	81	153	64	52	165	3712	HARVARD
246	78	23	25	54	53	338	105	101	54	23	23	3	27	58	29	24	43	1164	UNIV MASS
																		6	HARVEY MUDD
																		6	COLLEGE CAL
26	7	1	2	10	5	27	10	2	2		3	8	2	5	1	3	45	149	HASTINGS
8	2		1	3	2	11	4		1		2	3	1	1			18	53	COLLEGE NEBR
68	28	2	4	18	13	131	22	43	31	11	13	1	3	16	2	14	12	418	HAVERFORD
26	12	2		7	2	37	7	18	6	2	3		1	7	1	6	4	131	COLLEGE PA
38	11	5	6	5	7	24	9	3	5	1	2	3		5	4	1	32	223	HAWAII,
20	8		4	2	2	9	4		3		1	1		3	3		14	102	UNIVERSITY OF
1						3			1	2				1		1	2	7	HEBREW TEACHERS
1						1			1					1		1	2	5	COLLEGE MASS
																	1	1	HEBREW UNION
																	1	1	COLLEGE N Y
2			1		1	4	3				1			11		11	1	18	HEBREW UNION
																			COLLEGE OHIO
24	11		5	6	2	25	8	2	4	1	2	6	2	4	2	2	20	111	HEIDELBERG
10	6		1	2	1	12	4		1	1	1	4	1	2	1	1	10	46	COLLEGE OHIO
7	3		2	2		9	4	2	1			1	1	3		1	27	57	HENDERSON STATE
2	2					4	2		1				1	1			11	24	TEACH COLL ARK

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
HENDRIX COLLEGE ARK	1920-66	25	5	3			17	2	5					13		2	5			6
	1960-66	6	1	1			4		2					4			3			1
HIGH POINT COLLEGE N C	1920-66	2	1	1										3			1	2		
	1960-66													3			1	2		
HILLSDALE COLLEGE MICH	1920-66	6		2			2			1	1			7			1	1	1	4
	1960-66													2			1	1		
HILLYER COLLEGE CONN	1920-66																			
	1960-66																			
HIRAM COLLEGE OHIO	1920-66	49		9	1	1	38	2	5	1	1			19	3	3	1	3		9
	1960-66	4		1	1		3		1					6	2			1		3
HOBART & WM SMITH COLL N Y	1920-66	36	5	9		1	22	4	3					29	2	2	9	4		12
	1960-66	6	2	2		1	2		1					5			3	2		
HOFSTRA UNIVERSITY N Y	1920-66	43	9	7	2	1	22	4	4	3	2			16			9	3		4
	1960-66	24	5	5	2	1	10	2	3	3	1			10			6	1		3
HOLLINS COLLEGE VA	1920-66	2	1				1	1						1						1
	1960-66	2	1				1	1												
HOLY CROSS, COL OF THE, MASS	1920-66	71	9	16		1	43	10	12		3			31	1	8	12	5		5
	1960-66	33	6	11		1	14	6	6		2			13	1	4	5	2		1
HOLY FAMILY COLLEGE WISC	1920-66													1					1	
	1960-66													1					1	
HOLY NAMES, C OF THE, CAL	1920-66	1					1	1												
	1960-66																			
HOOD COLLEGE MD	1920-66													8			1	1		6
	1960-66													3			1	1		1
HOPE COLLEGE MICH	1920-66	124	6	11	2		106	26	8		1	1		56		2	24	14	1	15
	1960-66	30	3	4	1		23	16	2					12			7	4		1
HOUGHTON COLLEGE N Y	1920-66	17	4	4		1	9	1	1					9			5	1		3
	1960-66	9	2	3		1	4	1						7			5			2
HOUSTON, UNIVERSITY OF	1920-66	29	2	8		2	3	1	1	3	13	5	1	21	2		6	4		9
	1960-66	17	1	2		2	2	1	1	2	10	5		10	1		5	2		2
HOWARD PAYNE COLLEGE TEX	1920-66	6	2	1	1		3	1	1					4			1	1		2
	1960-66	3	1	1	1		1	1						3			1	1		1
HOWARD UNIVERSITY D C	1920-66	37	5	10		2	20	2	2	1	1			35		3	7	11		14
	1960-66	14	2	6		2	5		2		1			10		1	2	5		2
HUMBOLDT STATE COLLEGE CAL	1920-66	2	1	1		1								12	1			1		10
	1960-66	2	1	1		1								9						9
HUNTER COLLEGE N Y	1920-66	88	20	14		1	39	7	7	14	1			109	4	3	40	26		36
	1960-66	25	4	2			11	5	4	7	1			33			16	12		5
HUNTINGTON COLLEGE IND	1920-66													2			1			1
	1960-66																			
HUNTINGDON COLLEGE ALA	1920-66	3	1	1		1	1							11			5	2		4
	1960-66	2	1	1		1								7			3	2		2
HURON COLLEGE S D	1920-66	12	2				8	2		2				2		1				1
	1960-66																			
HUSTON-TILLOTSON COLL TEX	1920-66	5					5		1					2		1				1
	1960-66	2					2							1						1
IDAHO, COLLEGE OF	1920-66	25	2				21	3	1		2		1	18			4	4	1	9
	1960-66	9	1				6	1	1		2		1	6			1	1	1	3
IDAHO STATE UNIVERSITY	1920-66	19	1	3		2	14		5	1				29	1	20	3		1	4
	1960-66	10		1		1	8		4	1				13	1	6	2		1	3
IDAHO, UNIVERSITY OF	1920-66	122	9	12		2	49	10	6	15	37	15	4	197	80	9	26	37	3	42
	1960-66	48	2	2		1	12	6	4	7	25	9	2	65	29	1	11	8	3	13
ILLINOIS COLLEGE	1920-66	33	4	3			24	4	3		2	1		17		1	3	3	1	9
	1960-66	4					4		3					3			1			2
ILLINOIS COLL OF OPTOMETRY	1920-66																			
	1960-66																			
ILLINOIS INST OF TECHNOLOGY	1920-66	374	46	56	4	11	80	8	15	1	191	50	35	20	1	4	13	1		1
	1960-66	166	25	25	1	9	27	5	11	1	88	17	16	7	1		6			
	1920-66	1		1		1														
	1960-66	1		1		1														

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
13	5		3	3	2	24	7	11				1	5	6	1	4	32	113	HENDRIX
3	3					9	2	3					4	2	1	1	8	32	COLLEGE ARK
						1			1					1		1	11	18	HIGH POINT
						1			1								7	11	COLLEGE N C
17	8		5	1	2	7	2	3	1			1		3	1	1	19	59	HILLSDALE
4	3				1	2	1		1					2	1		13	23	COLLEGE MICH
						1						1					3	4	HILLYER
						1						1					3	4	COLLEGE CONN
19	6		2	5	5	30	11	3	4	1	1	8	2	8	2	6	25	150	HIRAM COLLEGE
4	2		1		1	7	1	1	1			4		3	1	2	6	30	OHIO
29	10		5	10	3	40	12	16	6	1		2		4		3	20	158	HOBART & WM
12	3		4	4	1	10	2	8						2		1	7	42	SMITH COLL N Y
30	23		3	2	2	17	3	8	5		1			2	2		19	127	HOFSTRA
20	18		1		1	7		5	1		1			2	2		14	77	UNIVERSITY N Y
5	2				1	11	4	3	2		1		1	1		1		20	HOLLINS
2	1																	4	COLLEGE VA
25	6		5	9	4	68	16	29	5	8	8	1	1	11	2	3	31	237	HOLY CROSS, COL
11	2		1	6	1	34	7	15	4	4	4			4	1	1	13	108	OF THE, MASS
						1	1							1			2	5	HOLY FAMILY
						1	1							1			1	4	COLLEGE WISC
2	1		1			9	3	3	3								6	18	HOLY NAMES,
1			1			5		2	3								3	9	C OF THE, CAL
4	1		1		2	5	1	3				1					3	20	HOOD COLLEGE
1	1					1	1											5	MD
23	11		1	4	5	23	8	7	3	1	4			17	2	13	37	280	HOPE COLLEGE
10	7		1		1	9	3	4	1		1			4	1	3	15	80	MICH
12	8	1		1	2	16	5	3	4	2	1			11		10	26	91	HOUGHTON
5	5					8	2	1	2	2	1			4		4	7	40	COLLEGE N Y
46	36	1	3	3	3	21	4	8	4		3	2		5	2		33	155	HOUSTON,
35	27	1	2	3	2	15	2	5	4		2	2		4	2		14	95	UNIVERSITY OF
1	1					7	3	3	1					1	1		28	47	HOWARD PAYNE
						2	1	1									12	20	COLLEGE TEX
54	25	1	10	6	11	44	16	12	10		3	1	2	7	1		53	230	HOWARD
16	9		1	2	3	15	5	4	3		1		2	2	1		10	67	UNIVERSITY D C
3	2			1		3		2				1					14	34	HUMBOLDT STATE
2	1			1		2		1				1					6	21	COLLEGE CAL
203	136	14	15	14	12	189	26	43	75	10	13	9	11	15	3	1	170	774	HUNTER COLLEGE
95	67	5	4	3	7	67	10	21	20	1		6	9	5		1	69	294	N Y
						5	4		1					1		1	8	16	HUNTINGTON
																	4	4	COLLEGE IND
2			1			6	1	5									7	29	HUNTINGDON
						3	1	2									1	13	COLLEGE ALA
11	3		1	1	4	6		3				3		3	3		16	50	HURON
3	1			1	1	1						1		2	2		5	11	COLLEGE S D
2				1	1	1		1						3	1	2	8	21	HUSTON-TILLOT-
2				1	1	1		1						1	1		4	11	SON COLL TEX
3	3					11	3	1	3		3	1		2	1	1	18	77	IDAHO,
3	3					7	1	1	1		3	1		2	1	1	9	36	COLLEGE OF
6	4		2			11	1	1	1			7	1	3	2		6	74	IDAHO STATE
5	3		2			11	1	1	1			7	1	2	1		5	46	UNIVERSITY
60	23	1	4	19	8	37	9	9	5	1	1	7	5	9	2	3	70	495	IDAHO,
25	9	1		10	1	11	3	2	1		1	2	2	4		1	27	180	UNIVERSITY OF
12	5		3	2	2	21	11	5			1	4		3	1	1	18	104	ILLINOIS
7	3		1	1	2	6	4	1				1		1	1		2	23	COLLEGE
1	1					1		1										2	ILLINOIS COLL
1	1																	1	OF OPTOMETRY
34	20		4	6	3	13	5	2	3		2	1		17	8	6	22	480	ILLINOIS INST
15	7			4	3	4		2			1	1		3	3		7	202	OF TECHNOLOGY
																	1	2	
																		1	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
ILLINOIS STATE	1920-66	26	4	6	1	2	16	1	3					25	4	1	4	4	2		10
UNIV, NORMAL	1960-66	8	2	3		2	3	1	1					6	2	1	1		2		3
ILL TEACH COLL,	1920-66	1					1							6							6
CHICAGO N & S	1960-66													2							2
ILLINOIS,	1920-66	1691	99	145	15	23	821	192	54	88	538	112	107	889	227	105	201	210	7		139
UNIVERSITY OF	1960-66	583	37	56	14	16	160	75	22	30	300	51	65	260	72	32	65	59	5		27
ILL WESLEYAN	1920-66	35	4	3			27	7	4		1	1		15	3	4	4	1			3
UNIVERSITY	1960-66	4					4	2						1			1				
IMMACULATA	1920-66	3	1				2	2						5			2				3
COLLEGE PA	1960-66	3	1				2	2						3			1				2
IMMACUL CONCEP	1920-66													1							1
SEMINARY MD	1960-66																				
IMMACUL CONCEP	1920-66																				
SEMINARY N J	1960-66																				
IMMACULATE	1920-66	4	1				3		1					6			1	1			4
HEART COLL CAL	1960-66	3	1				2		1					5			1	1			3
INCARNATE WORD	1920-66	1	1											3				1			2
COLLEGE TEX	1960-66	1	1											1				1			
INDIANA CENTRAL	1920-66	3					3	2						13		1	2				10
COLLEGE	1960-66	1					1							2		1					1
INDIANA INST	1920-66	12		2	1						10	1	4								
OF TECHNOLOGY	1960-66	10		2	1						8		4								
INDIANA STATE	1920-66	6	2				4							13		1	2	1	2		7
COLLEGE PA	1960-66	2	1				1							6			1		1		4
INDIANA STATE	1920-66	23	4	8		1	10	3		1				41	1	3	7	17			13
UNIVERSITY	1960-66	6	1	2		1	3	2						10	1		3	5			1
INDIANA	1920-66	344	31	87	4	1	171	21	18	48	7			177	6	29	41	46	1		60
UNIVERSITY	1960-66	72	8	20	4	1	21	8	4	23				32	1	1	10	14	1		5
INDIANA	1920-66	18	2	2			3	2			11	4	4	1			1				
JUNIOR COLLEGE	1960-66	8					1	1			7	1	4								
INTERDENOM THEO	1920-66																				
CENTER GA	1960-66																				
INTER AMER UNIV	1920-66	1									1	1		5			1	1			3
OF PUERTO RICO	1960-66	1									1	1		2			1	1			
IONA COLLEGE	1920-66	17	1	3			11	9	2	2				5		1	2	1			1
N Y	1960-66	13	1	2			10	8	2					5		1	2	1			1
IOWA, STATE	1920-66	39	5	9			21	3	4	2	2		1	45	4		5	10	1		25
COLLEGE OF	1960-66	7	3				3	2		1				15	2		2	4			7
IOWA STATE UNIV	1920-66	623	53	77	5	14	204	38	25	26	263	54	55	567	215	44	95	152	4		57
OF SCI & TECH	1960-66	263	25	21	4	11	52	15	13	10	155	22	34	184	68	15	29	29	5		10
IOWA,	1920-66	344	39	42	1		138	35	23	35	90	27	18	210	8	53	53	25	1		70
UNIVERSITY OF	1960-66	90	19	6	1		24	12	3	7	34	6	4	42	3	14	11	7			13
IOWA WESLEYAN	1920-66	24	2	2			19	3	3		1	1		19	1	1	3	6			8
COLLEGE	1960-66	1									1	1		3			2	1			
ITHACA	1920-66													1				1			
COLLEGE N Y	1960-66													1				1			
JACKSON STATE	1920-66																				
COLLEGE MISS	1960-66																				
JACKSONVILLE	1920-66	4	3				1	1						5		1	1	1			2
STATE COLL ALA	1960-66	2	2											3		1		1			1
JACKSONVILLE	1920-66																				
UNIVERSITY FLA	1960-66																				
JAMESTOWN	1920-66	20	1	1			15	4	3	1	2	2		7			3	2			2
COLLEGE N D	1960-66	7		1			5	1	1	1				1				1			
JARVIS CHRIS-	1920-66																				
TIAN COLL TEX	1960-66																				
JEFFERSON MED	1920-66													6		5	1				
COLL OF PHILA	1960-66																				
JERSEY CITY	1920-66													1		1					
STATE COLLEGE	1960-66													1		1					

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
61	7		5	8	11	31	5	5	5			14	2	9	8		162	314	ILLINOIS STATE
16	3		4	2	3	18	2	1	2			12	1	2	2		71	121	UNIV, NORMAL
14	9			1	2	8	2	6									53	82	ILL TEACH COLL,
5	4					1		1									32	40	CHICAGO N E S
601	206	8	54	250	56	384	101	107	75	11	21	43	23	124	74	9	415	4104	ILLINOIS,
194	83	3	17	69	15	107	19	29	22		7	22	7	43	30	4	138	1325	UNIVERSITY OF
14	7		3	2	2	25	6	4	1			7	7	10	4	4	27	126	ILL WESLEYAN
1	1					5	1					3	1	7	3	3	11	29	UNIVERSITY
3				1	1	9		5	1	3							1	21	IMMACULATA
2					1	3		2		1							1	12	COLLEGE PA
1	1					4	2		1	1							1	7	IMMACUL CONCEP
1	1					3	2			1							1	6	SEMINARY MD
						1					1			3		3	2	6	IMMACUL CONCEP
														1		1		1	SEMINARY N J
5	1		2	1	1	17	1	7	5		2	1	1	1		1	8	41	IMMACULATE
3	1			1	1	9		3	3		2	1		1		1	5	26	HEART COLL CAL
2	1		1			9	2	3	2	1			1	1			4	20	INCARNATE WORD
1	1					3	1	2						1			1	8	COLLEGE TEX
5	3		2			15	9	1		2	1	2		6	1	4	17	59	INDIANA CENTRAL
3	1		2			5		1				2		4	1	3	6	19	COLLEGE
																		12	INDIANA INST
																		10	OF TECHNOLOGY
10	6		1		1	12	2	3			1	2	4	2	1	1	92	135	INDIANA STATE
4	5				1	8		3			1	2	2	1		1	40	61	COLLEGE PA
30	10		5	4	5	43	13	13	3			15		11	6	1	176	324	INDIANA STATE
3	2				1	15	2	2	2			7		3	5		77	116	UNIVERSITY
232	108	9	15	45	30	240	67	60	48	11	11	20	18	73	47	3	295	1361	INDIANA
64	27	4	4	11	17	62	17	22	16	3	6	9	10	40	35		112	407	UNIVERSITY
						2	1			1				1	1		7	29	INDIANA
																		8	JUNIOR COLLEGE
																	1	1	INTERDENOM THEO
																	1	1	CENTER GA
2	2																5	13	INTER AMER UNIV
																	2	5	OF PUERTO RICO
3	3					13	3	6	3		1						6	66	IONA COLLEGE
3	3					13	3	6	3		1						5	50	N Y
70	19		9	15	16	60	17	9	1	1	1	22	9	19	16	1	242	475	IOWA, STATE
10	1		6	1	1	15	5	1		1		9	3	6	6		95	148	COLLEGE OF
179	52	1	26	52	5	12	7	3	1			1		23	10	3	93	1501	IOWA STATE UNIV
90	19		16	36		5	3	1						13	9	3	59	574	OF SCI & TECH
242	151	3	29	72	67	322	79	75	75	5	17	67	21	79	69	5	236	1521	IOWA,
66	54	3	9	16	14	66	14	22	6	3	6	16	10	19	11	3	85	414	UNIVERSITY OF
5	1	1	1	2		9	3	1				1	1	5	2	3	17	74	IOWA WESLEYAN
3	1			1		4	1						1				6	19	COLLEGE
2	1		1			6	1					2	2				24	53	ITHACA
1						4						1	1				11	17	COLLEGE N Y
1			1														8	9	JACKSON STATE
																	6	6	COLLEGE MISS
5	2		1			5	2		2			1		1		1	23	40	JACKSONVILLE
1	1					5			2			1					16	27	STATE COLL ALA
1	1																2	3	JACKSONVILLE
																		2	UNIVERSITY ILL
5	2		1	2		5	3	2	1		1	1		1			15	31	JAMESTOWN
																	5	33	COLLEGE N Y
																	1	1	JERSEY CONTIN
																			TOWN COLL NJ
																		4	JOHNSON BOB
																			COLL OF MISSOU
1	1					2		2									10	23	JUNIOR COLL
																	10	23	STATE COLLEGE

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
JEWISH STUDIES, COLL OF, ILL	1920-66																				
	1960-66																				
JEWISH THEOL SEM OF AM N Y	1920-66	1					1	1													
	1960-66	1					1	1													
JOHN BROWN UNIVERSITY ARK	1920-66	5	1				2		1		2		1	3			2				1
	1960-66	2					1		1		1		1	3			2				1
JOHN CARROLL UNIV OHIO	1920-66	33	4	11	1	4	17	7	4		1			7			4	1			2
	1960-66	25	4	9	1	3	11	5	4		1			2			2				
JOHN MARSHALL LAW SCHOOL ILL	1920-66																				
	1960-66																				
JOHNS HOPKINS UNIVERSITY MD	1920-66	518	40	86	6	6	159	20	20	52	181	32	56	135	4	12	68	21	1		29
	1960-66	140	13	28	6	4	26	12	10	8	65	13	21	45	2	2	31	7			3
JOHNSON BIBLE COLLEGE TENN	1920-66													1							1
	1960-66													1							1
JOHNSON C SMITH UNIVERSITY N C	1920-66	9	3				6	2	2					5					1		4
	1960-66	3					3	1	2					2					1		1
JUDSON COLLEGE ALA	1920-66													2		1		1			
	1960-66													2		1		1			
JUILLIARD SCH OF MUSIC N Y	1920-66	1	1																		
	1960-66	1	1																		
JUNIATA COLLEGE PA	1920-66	80	3	5			68	10	11	2	2	2		23	1	2	10	7			3
	1960-66	20	3				15	7	5	2				11		1	5	4			1
KALAMAZOO COLLEGE MICH	1920-66	116	5	26		1	84	21	5	1				48		2	22	9			15
	1960-66	27	1	8		1	18	12	3					11		1	4	2			4
KANSAS, UNIVERSITY OF	1920-66	397	31	74	3	11	142	21	17	42	108	34	23	240	6	25	42	90	1		74
	1960-66	149	12	23	3	8	34	13	11	17	63	17	17	56		6	19	19			12
KANS STATE COLL PITTSBURG	1920-66	31	3	2			25	6	2		1	1		30	3	4	3	8			12
	1960-66	15	3	1			9	4	1					7		1	1	2			3
KANSAS ST TCHRS COLL EMPORIA	1920-66	44	9	13			19	4	5	2	1			41	2		2	5	2		30
	1960-66	14	4				8	3	3	1	1			17			1	2	2		10
KANSAS ST UNIV OF AG & AP SCI	1920-66	233	8	32	2	5	81	6	15	16	38	19	13	379	157	39	48	84	1		22
	1960-66	115	5	14	2	4	24	3	8	10	69	7	7	142	62	14	21	34	1		10
KANSAS WESLEYAN UNIV	1920-66	5	2	1			2	1	1					3			2				1
	1960-66	2					2	1	1					3			2				1
KEARNEY STATE COLLEGE NEBR	1920-66	14	3	2		1	8	1	3					17	1		8	3			5
	1960-66	7	1	2		1	4	1	3					5	1		3	1			1
KEENE STATE COLLEGE N H	1920-66													2	2						
	1960-66													1	1						
KENRICK SEMINARY MO	1920-66	1	1																		
	1960-66	1	1																		
KENT STATE UNIV OHIO	1920-66	55	5	11	1		36	8	6	3	1			53	3	1	8	13	2		15
	1960-66	31	3	4	1		25	8	4	3				14	1		5	6	2		5
KENTUCKY STATE COLLEGE	1920-66	1					1		1					3			1				2
	1960-66	1					1		1					3			1				2
KENTUCKY, UNIVERSITY OF	1920-66	228	29	46	5	2	83	5	13	36	51	2	1	222	38	23	57	30	1		27
	1960-66	96	7	6	3	1	17	1	4	8	29	1	2	41	41	4	14	23	1		6
KENTUCKY WESLEYAN COLL	1920-66	7	3	1			3	2						1							1
	1960-66	4	1	1			2	2													
KENYON COLLEGE OHIO	1920-66	56	14	8		1	32	8	5		2	2		17		1	6	5			6
	1960-66	22	6	3		1	14	7	4					4			4	1			
KEUKA COLLEGE N Y	1920-66	1					1							2		1	2				
	1960-66													2			2				
KING COLLEGE TENN	1920-66	14	1	4		2	8	2	1					8	1		2				2
	1960-66	8	1	4		2	3	2	1					3			3				
KINGS COLLEGE PA	1920-66	22					22	5	8					12		1	1	10			1
	1960-66	15					15	4	6					8			1	8			
KINGS COLLEGE N Y	1920-66	2					2	1	1												
	1960-66																				
KINGSVILLE COLL EDT S TEXAS	1920-66													1	1						
	1960-66																				

Doctorates by Field																					
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
1					1	1												2	JEWISH STUDIES,
1					1	1												2	COLL OF, ILL
2	1					2				2				12		12	4	21	JEWISH THEOL
2	1													2		2	2	7	SEM OF AM N Y
1				1		2	1	1						1	1		6	18	JOHN BROWN
1				1		2	1	1									2	10	UNIVERSITY ARK
10	7		3			30	9	12	1	3	5			5	1	1	9	94	JOHN CARROLL
7	6		1			16	7	5		1	3			3			7	60	UNIV OHIO
1				1														1	JOHN MARSHALL
1				1														1	LAW SCHOOL ILL
130	58	3	3	25	35	156	41	37	38	11	22	3	2	10	1	4	63	1012	JOHNS HOPKINS
41	22	1		4	9	39	12	8	6	1	8	1	2	4	1	2	12	281	UNIVERSITY MD
						2	2							2		2	3	8	JOHNSON BIBLE
						2	2							1		1	2	6	COLLEGE TENN
2			2			5		4				1		2		2	16	39	JOHNSON C SMITH
						2		2									4	11	UNIVERSITY N C
1	1					1		1									2	6	JUDSON
						1		1										3	COLLEGE ALA
2	2					13							13				19	35	JUILLIARD SCH
2	2					9							9				10	22	OF MUSIC N Y
24	12	1	5	6		22	6	6	6		3	1	2	10		8	45	204	JUNIATA
5	3			2		7	4	1	1			1	1	3		2	8	55	COLLEGE PA
22	9		6	3	6	21	5	12	1		1	1		7	2	5	18	232	KALAMAZOO
13	5		2	1	5	11	2	6	1		1	1		2	1	1	3	67	COLLEGE MICH
206	75	6	27	56	37	165	42	45	45	6	7	12	9	39	28	3	157	1204	KANSAS,
56	18	3	9	12	12	47	10	8	11	1	4	9	4	11	10	1	54	373	UNIVERSITY OF
21	13		2	4	1	17	8	2	6			3		12	6	2	139	250	KANS STATE COLL
6	4		1			5	3		1			1		6	3		49	86	PITTSBURG
36	21	1	6	5	1	53	10	10	7		1	17	3	4	3		163	339	KANSAS ST TCHRS
2		1	1			21	2	3	4		1	4	2				68	122	COLL EMPORIA
109	32	1	6	65	9	71	7	3	2		1	6	7	16	2	1	77	633	KANSAS ST UNIV
37	9		1	25	5	4	1		1		1			4	1		10	144	OF AG & AP SCI
6	2			3	1	8	5	2				1	1	3	1	2	20	45	KANSAS
3	1			1	1	4	4										5	17	WESLEYAN UNIV
5	2		2			5	1	5	1			2		2	1		82	127	KEARNEY STATE
1	1					4	1	1	1					2	1		45	61	COLLEGE NEBR
1					1	1					1						15	19	KEENE STATE
1					1	1											6	9	COLLEGE N H
2			1	1		1	1							1		1	1	9	KENRICK
							1											2	SEMINARY MO
34	25		10	2	3	38	6	5	2	1		13	1	9	5	2	93	312	KENT STATE
14	19		4	2		19	4	5	2	1		10	1	7	4	2	62	254	UNIV OHIO
2			1	1		2	2										12	20	KENTUCKY STATE
1				1		1	1										8	14	COLLEGE
139	55	7	3	47	20	80	23	28	13		7	3	7	15	7	5	126	780	KENTUCKY,
44	14	4	3	17	6	18	6	6	4		3	3	2	6	4	6	44	271	UNIVERSITY OF
7	4		2	1		3	1	2						1		1	19	35	KENTUCKY
1			1											1		1	4	10	WESLEYAN COLL
30	12		1	8	3	36	3	16	8		12	3		3	2		8	148	KENYON COLLEGE
13	8		1	4	4	21	1	10	5		6			2	1		3	72	OHIO
1		1				2		1	1					1			5	12	KEUKA
																	3	5	COLLEGE N Y
3	2		1	2	1	5	2	2	1					2		2	3	37	KING
3	1			1		4	2	1	1					1		1	3	24	COLLEGE TENN
2	1		1			3	1	3			1			2	1			42	KINGS COLLEGE
2	1		1			3	1	3			1			2	1			32	PA
1	1					2	1		1					1		1	2	8	KINGS
						1	1							1		1	2	5	COLLEGE N Y
																		1	KINGSBOROUGH COLL
																		1	CUNY N YORK NY

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
KNOX COLLEGE ILL	1920-66	73	12	13		1	47	14	2	1				29	2	3	8	6	1	9
	1960-66	20	5	3			12	8	1					12		2	5	2	1	2
KNOXVILLE COLLEGE TENN	1920-66	1					1	1						3			2			1
	1960-66													1			1			
KUTZTOWN STATE COLLEGE PA	1920-66	8	1	1		1	5	1	1		1		1	6	1		2	2		1
	1960-66	4	1	1		1	2	1	1					3	1		2			
LADYCLIFF COLLEGE N Y	1920-66													1						1
	1960-66													1						1
LAFAYETTE COLLEGE PA	1920-66	143	15	22		5	58	9	6	16	32	6	7	34	2	7	7	9	2	7
	1960-66	55	6	10		4	15	7	4	8	16	3	3	11		2	4	2	2	1
LA GRANGE COLLEGE GA	1920-66													3			1	1		1
	1960-66													2			1			1
LAKE ERIE COLLEGE OHIO	1920-66													3			2	1		
	1960-66													1			1			
LAKE FOREST COLLEGE ILL	1920-66	11	1	5		1	5	1						10		2	1	2	1	4
	1960-66	4	1	2		1	1	1						3			1	1	1	
LAKELAND COLLEGE WISC	1920-66	1					1							2				1		1
	1960-66	1					1													
LAMAR STATE COL OF TECHNOL TEX	1920-66	29	2	5	1	1	2	1		4	16	7	2	3			1	2		
	1960-66	26	2	4	1		2	1		4	14	5	2	3			1	2		
LAMBUTH COLLEGE TENN	1920-66	4	1				3							3			1			2
	1960-66													1						1
LANDER COLLEGE S C	1920-66																			
	1960-66																			
LANE COLLEGE TENN	1920-66													2		1				1
	1960-66													1						1
LANGSTON UNIV OKLA	1920-66	2					2							5	2		1			2
	1960-66	1					1							1			1			
LASALLE COLLEGE PA	1920-66	42	3	9	3	1	29	9	8		1	1		12		1	6	1		4
	1960-66	24	3	5	3	1	15	5	7		1	1		7		1	4	1		1
LA SIERRA COLLEGE CAL	1920-66	3		3		1								6			4	2		
	1960-66	2		2		1								6			4	2		
LA VERNE COLLEGE CAL	1920-66	4	2	1			1							2				1		1
	1960-66	3	2	1																
LAWRENCE INST OF TECH MICH	1920-66	6	1	2			1		1		2	1								
	1960-66																			
LAWRENCE UNIV WISC	1920-66	69	3	6		1	49	15	9	9	2		1	56	3		14	6		11
	1960-66	15	2				10	4	4	3				9			2	3		4
LEBANON VALLEY COLLEGE PA	1920-66	59	4	4			48	14	1	1	2			33	1	1	9	7		15
	1960-66	14					13	9	1		1			8			4	3		1
LEHIGH UNIVERSITY PA	1920-66	388	26	26	5	15	123	23	23	30	125	41	16	33	1	1	10	16	1	6
	1960-66	176	17	13	4	11	51	17	16	12	66	31	6	9	1		2	4	1	1
LEMOYNE COLLEGE N Y	1920-66	13		6	1	1	8	3	5	1				5			1	2		2
	1960-66	11		4	1	1	6	3	4	1				5			1	3		3
LE MOYNE COLLEGE TENN	1920-66	2	1				1							2		1	1			
	1960-66	2	1				1							2		1	1			
LENOIR-RHYNE COLLEGE N C	1920-66	18	4	2	1		12	2	5					5		1	1	1		1
	1960-66	8		3	1		6	1	4					3						
LETOURNEAU COLLEGE TEX	1920-66	1	1																	
	1960-66	1	1																	
LEWIS & CLARK COLLEGE OREG	1920-66	12	1	3			7		2		1			5		1	5			5
	1960-66	5	1	3			1		1					4			5			5
LEWIS COLLEGE ILL	1920-66	1					1							1			1			
	1960-66	1					1							1			1			
LINDENWOOD COLLEGE S C	1920-66	1	1																	
	1960-66	1	1																	
LINDSLEY CHRISTIAN COLLEGE ILL	1920-66																			
	1960-66																			
LINFIELD WOMAN COLLEGE IOWA	1920-66	3		2			3							3			2			3
	1960-66	1					1							1			1			

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
33	17			9	7	51	22	9	6	2	6	2	3	3	1		29	218	KNOX
15	11			2	2	17	5	3	4		2	1	2	1			7	72	COLLEGE ILL
1			1			6	2	2	1				1				12	23	KNOXVILLE
						2			1				1				3	6	COLLEGE TENN
2	2					3		2					1				49	68	KUTZTOWN STATE
1	1					1		1									27	36	COLLEGE PA
1	1					3	1	1		1							2	7	LADYCLIFF
						1	1										2	4	COLLEGE N Y
68	45	2	1	10	8	66	10	25	14	1	8	4	1	17	3	12	36	364	LAFAYETTE
21	14	1		4	2	14	3	4	2		3	1	1	6	2	4	8	115	COLLEGE PA
2	1				1	5	4	1						2		2	2	14	LA GRANGE
1					1	5	4	1						1		1	1	10	COLLEGE GA
2	2					2		1		1							1	8	LAKE ERIE
1	1																1	3	COLLEGE OHIO
16	9	1	1	5		19	2	7	7		1	2					12	68	LAKE FOREST
7	5			2		7	1	3	1			2					6	27	COLLEGE ILL
3	1		1			8	1	1	1	2	2		1	2		1	6	22	LAKELAND
						2			1		1			1			2	6	COLLEGE WISC
1	1					4	2	2						5	5		2	44	LAMAR STATE COL
1	1					4	2	2						5	5		2	41	OF TECHNOL TEX
1				1		5	2	3						3		2	3	19	LAMBUTH
1				1		4	2	2						3		2	1	10	COLLEGE TENN
1			1											1			3	5	LANDER
														1				1	COLLEGE S C
						1				1				1		1	3	7	LANE
																	3	4	COLLEGE TENN
8	1		4	3		2						1	1	2	1	1	9	28	LANGSTON
5	1		2	2		1						1					4	12	UNIV OKLA
19	9	1	1	6	2	25	6	8	3	5	2			2	1	1	11	111	LASALLE
12	4	1	1	5	1	13	5	4	2	3	1			1	1		6	63	COLLEGE PA
3	3					3	2				1	2					4	21	LA SIERRA
3	3					3	2				1	2					3	14	COLLEGE CAL
6	1		2		3	4	3	1						1		1	16	33	LA VERNE
3					3	3	2	1									12	21	COLLEGE CAL
																		6	LAWRENCE INST OF TECH MICH
55	21	5	2	16	8	54	11	11	4	2	8	11	6	4	3	1	58	276	LAWRENCE
15	7	5	1		4	20	5	6	1		1	3	4				14	73	UNIV WISC
13	9			3	1	10	5	5		3		1		13	2	11	35	176	LEBANON VALLEY
6	4				1	6	3	3						3	1	1	7	42	COLLEGE PA
30	16		2	10	1	29	7	11	5	2	3	1		12	7	5	21	333	LEHIGH
11	5			4		10	4	5			2			9		2	8	231	UNIVERSITY PA
2	1		1			2		2									3	25	LEMOYNE
2						2		2									3	23	COLLEGE N Y
						2			1			1		1		1	3	10	LE MOYNE
						2			1			1		1		1	3	10	COLLEGE TENN
5	2		1	1		3	1	2	1	1				5		4	13	52	LENOIR-RHYNE
2	1			1		3	1	2	1	1				5		4	6	24	COLLEGE N C
																		1	LESTURGEON
																		1	COLLEGE TEX
19	12				1	10	2	1	1		1	3	3	5	3	2	22	97	LEWIS & CLARK
13	8					8	1	1	1		1	3	3	5	3	2	15	42	COLLEGE OREG
1	1																	3	LEWIS
1	1																	3	COLLEGE ILL
1	1					1		1									2	5	LEXINGTON
						1		1									2	5	COLLEGE S C
						1			1					1		1	1	6	LINCOLN UNIVERSITY
														1		1	1	3	OHIO STATE ILL
2	2			1	1	7	3	2	3		1			1		1	10	55	LINDENWOOD
2	2			1	1	7	3	2	3		1			1		1	10	35	COLLEGE MO

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
LINCOLN UNIVERSITY PA	1920-66	13	3	1			8		4	1				16	4		2	4		6
	1960-66	5	2				3		3					5			1	2		2
LINCOLN UNIVERSITY MO	1920-66	6					5	1	1	1				4	1		2			1
	1960-66	4					3		1	1				3			2			1
LINDENWOOD COLL FOR WOMEN MO	1920-66	1					1							4			2	1		1
	1960-66													1						1
LINFIELD COLLEGE OREG	1920-66	28	2	10		2	15	1	1		1	1		19	1		4	4		10
	1960-66	10	2	5		2	2	1			1	1		2			1			1
LITTLE ROCK UNIVERSITY	1920-66	2					2		1											
	1960-66	1					1		1											
LIVINGSTON STATE COLL ALA	1920-66													1					1	
	1960-66													1					1	
LIVINGSTONE COLLEGE N C	1920-66													5		1	2			2
	1960-66													3		1	1			1
LOCK HAVEN STATE COLL PA	1920-66	1					1	1						1						1
	1960-66	1					1	1												
LOMA LINDA UNIVERSITY CAL	1920-66													2		1		1		
	1960-66																			
LONG ISLAND UNIVERSITY	1920-66	36	1	3		1	30	4	6	1	1			68		27	16	10		15
	1960-66	14	1	1		1	11	2	2	1				24		15	4	2		3
LONGWOOD COLLEGE VA	1920-66													1						1
	1960-66																			
LORAS COLLEGE IOWA	1920-66	41	3	4			33	16	6		1		1	11		3	4	1		3
	1960-66	20	1	1			17	12	4		1		1	6		2	1			3
LORETTO HEIGHTS COLLEGE COLO	1920-66	2					2	1						2			1			1
	1960-66	1					1	1						1			1			
LOS ANGELES COLL OF OPTOM	1920-66													3		2				1
	1960-66													2		2				
LOS ANGELES PACIFIC COLL	1920-66																			
	1960-66																			
LOUISIANA COLLEGE	1920-66	13	3	1			8		2		1		1	5			1	4		1
	1960-66	3					3		2					2			1	1		
LOUISIANA POLYTECH INST	1920-66	56	9	12	3	1	13	3	3	1	21	8	5	25	11	7	2	1		9
	1960-66	32	5	10	3	1	7	3	2	1	4	4	2	14	3		1			6
LA STATE UNIV & AG & MECH COLL	1920-66	233	23	61	3	4	69	11	12	25	75	31	9	201	90	16	26	4		22
	1960-66	66	6	20	3	3	17	5	7	11	41	15	7	55	43	5	13	1		
LOUISVILLE PRES THEOL SEMINARY	1920-66																			
	1960-66																			
LOUISVILLE, UNIVERSITY OF	1920-66	111	5	15		1	63	20	12		28	16	5	33		5	11	1	2	9
	1960-66	45	1	4		1	24	10	4		16	7	4	22		5	7	1	2	7
LOWELL, STATE COLL AT, MASS	1920-66																			
	1960-66																			
LOWELL TECHNOL INSTITUTE MASS	1920-66	23		1		1	15	6	5		3	1								
	1960-66	14		1		1	10	4	5		3	1								
LOYOLA COLLEGE MD	1920-66	57	3	8	1	2	32	10	5		3	1	1	16		3	7	1		4
	1960-66	20	3	6	1	1	20	4	4		3			6		3	1	1		1
LOYOLA UNIVERSITY ILL	1920-66	85	5	10	1	2	57	23	12	1	2	1		52	1	7	18	1		8
	1960-66	40	2	6	1	2	32	14	6					26	1	3	6	1		4
LOYOLA UNIVERSITY LA	1920-66	55	6	19	1	5	33	5	6	1	2			12		5	7	1		1
	1960-66	34	4	12	1	4	23	5	5		2			6		5	5	1		1
LOYOLA UNIV OF LOS ANGELES	1920-66	19	1	2	2		10	3	2		2			5			2	1		
	1960-66	11	1	2	2		9	3	2		2			5			2	1		
LUTHER COLLEGE IOWA	1920-66	55	13	12		2	48	6	3	1				32		2	8	1		13
	1960-66	18	6	6		2	6	4	2					13			4	1		7
LUTHERAN SCHOOL OF THEOL ILL	1920-66																			
	1960-66																			
LUTHERAN THEOL SEMINARY MAYLN	1920-66																			
	1960-66																			
LUTHERAN THEOL SOUTH SEM S C	1920-66													1						1
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
16	8	1		2	4	8	1	3		1	2	1		3		2	22	78	LINCOLN
4	2				1	2	1			1				1			4	21	UNIVERSITY PA
8	1		4	2	1	3	1		2								20	41	LINCOLN
3			2	1													6	16	UNIVERSITY MO
2	1			1		3		2	1								1	11	LINDENWOOD COLL
1	1					2		1	1									4	FOR WOMEN MO
19	5		6	3	4	16	5	4	1		3	2		7	1	5	21	110	LINFIELD
6	3		1	1	1	6	2	1			1	2		1		1	4	29	COLLEGE OREG
1	1					2	1	1						1		1	1	7	LITTLE ROCK
1	1					1		1										3	UNIVERSITY
						1	1										13	15	LIVINGSTON
																	7	8	STATE COLL ALA
3	1		1	1		3	2	1									5	16	LIVINGSTONE
1			1														3	7	COLLEGE N C
4	3		1			2	1	1									49	57	LOCK HAVEN
1	1																28	30	STATE COLL PA
														1			1	4	LOMA LINDA
																	1	1	UNIVERSITY CAL
63	53		1	3	3	18	5	7	3			3		2	2		49	236	LONG ISLAND
23	17		1	1	2	12	3	5	3			1		2	2		13	88	UNIVERSITY
						2		2									5	8	LONGWOOD
																	1	1	COLLEGE VA
22	14		4	1	3	40	13	14	3	5	3	1	1	1		1	16	131	LORAS
11	10		1			8	2	2	1	1	1	1					9	54	COLLEGE IOWA
1			1			7	4	1	1		1						3	15	LORETTO HEIGHTS
1			1			4	2	1			1						2	9	COLLEGE COLO
																		3	LOS ANGELES
																		2	COLL OF OPTOM
														1		1		1	LOS ANGELES PACIFIC COLL
9	5		3		1	19	4	6		1		8	2	2	1		12	61	LOUISIANA
3	1		2			8	1	2				4	1	1			6	23	COLLEGE
8	1		2	5		13	1	8	3			1		13	8	1	39	154	LOUISIANA
2				2		5		3	2					9	7	1	18	80	POLYTECH INST
107	30	1	24	30	14	91	21	21	18	1	2	20	8	29	14	4	102	763	LA STATE UNIV &
39	11		5	13	7	37	8	6	10		1	8	4	14	7	2	36	247	AG & MECH COLL
						1	1										1	2	LOUISVILLE PRES THEOL SEMINARY
38	23	3	3	6	4	68	12	18	8	1	6	1	6	9	6	2	22	261	LOUISVILLE,
16	9	1	2	5	1	21	4	5	6		4		2	4	2	1	12	120	UNIVERSITY OF
																	11	11	LOWELL, STATE
																	6	6	COLL AT, MASS
1				1		2		2									1	27	LOWELL TECHNOL
						2		2									1	17	INSTITUTE MASS
12	6		1	4	2	10	4	4		2				3		2	6	95	LOYOLA
5	2		1	1	1	7		1		1				1		1	4	38	COLLEGE MD
67	35	1	8	5	15	95	22	35	6	10	18	2	1	13	5	9	66	356	LOYOLA
37	24		4	2	9	36	6	15	1	5	4	2	1	2	2		23	193	UNIVERSITY ILL
18	6		2	2	1	26	5	12	5	1	1	1	1	6	1	2	6	123	LOYOLA
1	1					11	4	6				1	1	3	1		4	61	UNIVERSITY LA
11	1			2	2	25	5	9	1	1	5			1	1		6	50	LOYOLA UNIV
6	1			1	1	21	3	5		1	3			1	1		4	31	OF LOS ANGELES
28	7	1	1	8	3	37	12	7	3	7	1	4	3	10	2	8	35	180	LUTHER
9	1			4	2	22	3		3	1		4	3	6	1	4	15	66	COLLEGE IOWA
						1	1							2		2	1	4	LUTHERAN SCHOOL OF THEOL ILL
						2	1			1								2	LUTHERAN THEOL SEMINARY PHILA
																			LUTHERAN THEOL SEM SAN F

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
LYCOMING COLLEGE PA	1920-66													4			1	2		1
	1960-66													2				1		1
LYNCHBURG COLLEGE VA	1920-66	16	1	5			10		1					10	1		2	1		6
	1960-66	1		1										5	1		2	1		1
LYNDON STATE COLLEGE VT	1920-66																			
	1960-66																			
MACALESTER COLLEGE MINN	1920-66	34	5	3			20	2	4	5	1	1		27	4	2	9	7	2	3
	1960-66	9	2				4	1	2	3				8	1		3	1	2	1
MACMURRAY COLLEGE ILL	1920-66	6					6	1	1					1				1		
	1960-66	2					2		1											
MACPHAIL COLL OF MUSIC MINN	1920-66																			
	1960-66																			
MADISON COLLEGE VA	1920-66	1					1		1					4			3			1
	1960-66													4			3			1
MADONNA COLLEGE MICH	1920-66	1					1													
	1960-66	1					1													
MAINE, UNIVERSITY OF	1920-66	107	8	27	1	9	45	7	11	7	20	2	1	157	62	7	18	31	1	38
	1960-66	46	1	15		8	13	3	6	5	12	2		59	27	3	8	14	1	6
MALONE COLLEGE OHIO	1920-66																			
	1960-66																			
MANCHESTER COLLEGE IND	1920-66	60	3	11	1		46	8	1					22	1	3	5	5		8
	1960-66	12		4	1		8	6						9	1	2	2	1		3
MANHATTAN COLLEGE N Y	1920-66	123	9	22	3	4	49	19	12	1	42	1	11	27			8	13		6
	1960-66	87	6	15	3	3	31	16	9	1	34		9	18			7	7		4
MANHATTAN SCH OF MUSIC N Y	1920-66																			
	1960-66																			
MANHATTANVILLE COLL SAC HEART	1920-66	2		2										4		1		3		
	1960-66	2		2										2		1		1		
MANKATO STATE COLLEGE MINN	1920-66	16	4	1			11	1	5					11	1		1	5		4
	1960-66	10	3				7	1	2					6	1			3		2
MANNES COLLEGE OF MUSIC N Y	1920-66																			
	1960-66																			
MANSFIELD STATE COLLEGE PA	1920-66	3	1				2							4				2		2
	1960-66	1	1											1				1		
MARIAN COLLEGE IND	1920-66	1					1							1						1
	1960-66	1					1													
MARIAN COL FOND DU LAC WISC	1920-66																			
	1960-66																			
MARIETTA COLLEGE OHIO	1920-66	56	11	6	1		32	7	6	9				40	7		7	16		15
	1960-66	10	5	4	1		9	4	5	2				14	1		5	9		1
MARILLAC COLLEGE MO	1920-66	1					1		1					1			1			
	1960-66	1					1		1					1			1			
MARION COLLEGE IND	1920-66	6	2	2			2	1						4			1	1		2
	1960-66	5	1				3	1												
MARIST COLLEGE N Y	1920-66	5	1	2		1	2	1	1											
	1960-66	5	1	2		1	2	1	1											
MARITIME COLLEGE N Y	1920-66													1						1
	1960-66													1						1
MARLBORO COLLEGE VT	1920-66													2					1	1
	1960-66																			
MARQUETTE UNIV WISC	1920-66	120	10	13	1	1	97	12	5	1	98	1	13	20	5	11	10	15		20
	1960-66	92	12	9	1	1	64	8	4	1	91	1	8	20	5	6	13	4		5
MARSHALL UNIV W VA	1920-66	26	9	2		1	26	1	5	2	3			18	2	1	1	3	2	5
	1960-66	24		1		1	21		4	1	3			9	1		1	3		5
MARY BALDWIN COLLEGE VA	1920-66																			
	1960-66																			
MARY HARDIN-BAYLOR COL TEX	1920-66													1				1		
	1960-66																			
MARY IMMACULATE COLLEGE CONN	1920-66													1						1
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
11	6		5			4	2				1		1	3		3	7	29	LYCOMING
8	5		3			4	2				1		1	2		2	2	18	COLLEGE PA
13	5		2	5	1	13	5	4			2	2		4		4	20	76	LYNCHBURG
3	2			1		5	1				2	2		1		1	9	24	COLLEGE VA
																	2	2	LYNDON STATE
																	2	2	COLLEGE VT
30	12	1	2	2	13	26	5	7	3	2	4	3	2	12	2	10	23	152	MACALESTER
16	5		2	2	7	13	2	4	1		4	1	1	3		3	12	61	COLLEGE MINN
6	4	1	1			8	2	2	3			1		1			8	30	MACMURRAY
2	2					2			2									6	COLLEGE ILL
						3							3				4	7	MACPHAIL COLL
						3							3				1	4	OF MUSIC MINN
						5	3	2						3			7	20	MADISON
						1	1							1			3	9	COLLEGE VA
						1		1									2	4	MADONNA
																		1	COLLEGE MICH
59	25	1	2	19	11	44	19	10	7		2	6		11	4	4	53	431	MAINE,
20	13	1	1	3	1	16	6	2	2		2	4		6	2	2	26	173	UNIVERSITY OF
1					1	1		1						1		1	2	5	MALONE
1					1									1		1	1	3	COLLEGE OHIO
25	8		6	6	5	37	17	3				15	2	13	2	10	46	203	MANCHESTER
7	1		3	2	1	7	5					1	1	3		3	19	57	COLLEGE IND
24	15			5	4	63	19	15	14	3	9		1	7	1		42	286	MANHATTAN
16	12			3	1	26	8	5	7		5		1	2			16	165	COLLEGE N Y
1	1					4							4				3	8	MANHATTAN SCH
1	1					4							4				3	8	OF MUSIC N Y
4	3		1			30	5	8	4	1	7	1	4	2	1	1	5	47	MANHATTANVILLE
3	2		1			8	1	3			2	1	1	2	1	1	3	20	COLL SAC HEART
5	1			1	2	9	3	2	1			1	2				41	62	MANKATO STATE
4	1			1	1	7	3	1	1			1	1				28	55	COLLEGE MINN
						1							1					1	MANNES COLLEGE
						1							1					1	OF MUSIC N Y
2			2			2		1					1	1			30	42	MANSFIELD STATE
1			1														8	12	COLLEGE PA
1					1	3	1	1		1							1	7	MARIAN
1						2		1		1							1	5	COLLEGE IND
1			1														2	3	MARIAN COL FDNC
																	1	1	INS LAC MUSIC
21	8	1	4	3	3	22	3	5	2		3	2	1				21	162	MARIETTA
6	2			2	1	10	1	3				6	1				4	43	COLLEGE OHIO
																		2	MARILLAC
																		2	COLLEGE MO
2	1				1	8	3	2			1			3		2	16	35	MARION
						6	2	1						1		2	6	14	COLLEGE IND
1	1					5	2	1	2					1		1	1	13	MARIST
						5	2	1	2					1		1	1	12	COLLEGE N Y
1				1														2	MARITIME
1				1														2	COLLEGE N Y
																		2	MARLBORO
																		2	COLLEGE VT
35	21		12	9	5	60	16	25	5	4	5	13	1	16	16		29	303	MARQUETTE
25	16		3	6	3	50	8	16	5		5	9		6	6		29	182	UNIV WISC
28	10		1	1	10	23	3	7	5			3		3	3		22	139	MARYMOUNT
11	6				5	13	3	1	1			3		3	3		22	62	UNIV W VA
4	2		1			5		2	1				1				3	15	MARY HARDIN
						5		2					1				3	6	COLLEGE WY
1			1															2	MARY HARDIN-
1			1															2	BAYLOR COL TX
																		1	MARY HARDIN-BT
																		1	COLLEGE TEXAS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
MARY IMMACULATE SEMINARY PA	1920-66																			
	1960-66																			
MARY MANSE COLLEGE OHIO	1920-66	1					1													
	1960-66																			
MARY WASHINGTON COL OF UNIV VA	1920-66													5		1		1		3
	1960-66																			
MARYCREST COLLEGE IOWA	1920-66	1					1	1						1				1		
	1960-66	1					1	1						1				1		
MARYGROVE COLLEGE MICH	1920-66	5	1				4	1						2			1			1
	1960-66	2					2	1						1			1			
MARYKNOLL SEMINARY N Y	1920-66																			
	1960-66																			
MARYKNOLL SEMINARY ILL	1920-66	2					2	1	1											
	1960-66	2					2	1	1											
MARYLAND INST. COLLEGE OF ART	1920-66																			
	1960-66																			
MARYLAND STATE COLLEGE	1920-66													5	3			2		
	1960-66													2	1			1		
MARYLAND, UNIVERSITY OF	1920-66	231	19	27	4	4	119	19	12	3	63	19	11	330	89	41	34	106	2	58
	1960-66	89	11	16	4	3	20	9	6	2	40	13	7	106	31	11	14	38		12
MARYLHURST COLLEGE OREG	1920-66													4		1	2	1		
	1960-66													2			1	1		
MARYMOUNT COLLEGE CAL	1920-66													1				1		
	1960-66													1				1		
MARYMOUNT COLLEGE N Y	1920-66	1					1	1						5			2			3
	1960-66	1					1	1						4			2			2
MARYMOUNT COLLEGE KAN	1920-66	2	2											1				1		
	1960-66	1	1											1				1		
MARYMOUNT MANHATTAN COL N Y	1920-66	1					1													
	1960-66	1					1													
MARYVILLE COLLEGE TENN	1920-66	28	6	3	2		19	2	1					23			4	2	1	16
	1960-66	7	1	2	2		4	2	1					6				1	1	4
MARYVILLE COLL OF SACRD HT MO	1920-66	1	1																	
	1960-66	1	1																	
MARYWOOD COLLEGE PA	1920-66	2					2							5			1	2		1
	1960-66	2					2							2				2		
MASSACHUSETTS COLLEGE OF ART	1920-66																			
	1960-66																			
MASS COLLEGE OF OPTOMETRY	1920-66													1						1
	1960-66																			
MASS COLLEGE OF PHARMACY	1920-66	29					29	2						48		17	5	6		3
	1960-66	12					12	2						19		11	4	2		2
MASS INSTITUTE OF TECHNOLOGY	1920-66	2191	212	554	77	74	409	107	65	106	910	156	187	135	5	20	85	16	1	8
	1960-66	1060	104	271	42	61	116	53	37	51	514	94	157	42		1	33	6	1	2
MASS MARITIME ACADEMY	1920-66																			
	1960-66																			
MASSACHUSETTS, UNIVERSITY OF	1920-66	168	5	12		1	112	5	16	5	16	3	2	391	94	23	62	110	1	57
	1960-66	44	1	4		1	27	4	4	4	10	2	1	96	34	6	14	21	1	20
MARVILLE STATE COLLEGE N D	1920-66	1	1																	
	1960-66	1	1																	
MCCORMICK THEOL SEMINARY ILL	1920-66																			
	1960-66																			
MCKENDREE COLLEGE ILL	1920-66	10	5	1			5				1			6			2			4
	1960-66																			
MCMURRY COLLEGE TEX	1920-66	9	5	1		1	6	2	1		1		1	1			1			
	1960-66	8	5	1		1	6	2	1		1		1	1			1			
MENDOCINO STATE COLLEGE CA	1920-66	5	1				4	1	2					4	2		2			
	1960-66	5	1				4	1	2					4	2		2			
MERRIMACK COLLEGE MASS	1920-66	17		5			12	2	5					12	1		7	5		5
	1960-66	6		1			6	2	3					3	1					2

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2			1		1	1					1			2		2		5	MARY IMMACULATE
2			1		1	1					1			1		1		4	SEMINARY PA
						2		2									1	4	MARY MANSE
						1		1									1	2	COLLEGE OHIO
4	2		2			4	2		1			1		1			3	17	MARY WASHINGTON
1	1					2	1		1					1			2	6	COL OF UNIV VA
						1		1						1		1	3	7	MARYCREST
						1		1						1		1	3	7	COLLEGE IOWA
8	4			1	3	13	3	4	2	1	2			1		1	10	39	MARYGROVE
4	2				2	1					1						6	14	COLLEGE MICH
3	2					5	1	2		1	1			1		1	2	11	MARYKNOLL
2	1					1				1				1		1	1	5	SEMINARY N Y
7	2	1	1		1												1	10	MARYKNOLL
6	2	1	1														1	9	SEMINARY ILL
																	2	2	MARYLAND INST.
																	1	1	COLLEGE OF ART
1				1													1	7	MARYLAND
																	1	3	STATE COLLEGE
101	55	1	7	17	21	66	22	19	7		6	10	2	14	6	1	71	613	MARYLAND,
59	31	1	4	10	15	40	14	9	3		5	7	2	8	6		38	340	UNIVERSITY OF
2	1		1			8	4	1	2				1				6	20	MARYHURST
1			1			4	1	1	1				1				4	11	COLLEGE OREG
1	1																	2	MARYMOUNT
1	1																	2	COLLEGE CAL
3	2			1		13	2	4	3		2	1		1	1		6	29	MARYMOUNT
1	1					6		3	1		1	1					5	17	COLLEGE N Y
2	1		1	1		6	2	1	1	1	1			2		2	1	15	MARYMOUNT
1				1										1		1	1	5	COLLEGE KAN
																		1	MARYMOUNT MAN-
																		1	HATTAN COL N Y
22	9		5	4	3	39	12	11	4	2	5	1	2	10	5	5	35	167	MARYVILLE
5	5		1		1	10	6	3			5			4	1	5	19	50	COLLEGE TENN
2			1		1	7	3			1	3						3	13	MARYVILLE COLL
1			1			1					1						1	4	OF SACRED HT MO
5	3		1		1	2		1		1				2		1	8	23	MARYWOOD
														1			3	8	COLLEGE PA
						5						5					10	14	MASSACHUSETTS
						2						2					4	6	COLLEGE OF ART
																	1	2	MASS COLLEGE
																	1	1	OF OPTOMETRY
																		74	MASS COLLEGE
																		52	OF PHARMACY
74	20	1	3	30	10	13	5	3	4		1			23	17	1	12	2148	MASS INSTITUTE
43	8		3	21	10	11	4	3	4		1			14	15		3	1175	OF TECHNOLOGY
1					1													1	MASS MARITIME
1					1													1	ACADEMY
80	48		3	25	9	18	16	23	7	2	7	1		9	3	1	42	736	MASSACHUSETTS,
44	18		3	15	8	10	6	15	4	2		1		6	2	1	35	242	UNIVERSITY OF
																	21	22	MATHILDE STATE
																	11	11	COLLEGE W D
																	2	2	MEDUNDER THEOL
																			SEMINARY ILL
7	1		2	3	1	2	1	1						3	1	1	3	41	MENDENHALL
1	1													3	1	1	3	6	COLLEGE ILL
						5	1	1				1	1	3		3	3	29	MERRIMACK
						5		1						3		3	3	24	COLLEGE TEX
														1				13	MERRITT COLTS
														1				13	COLLEGE LA
8	3		1	1	2	3	1		2		1	1		3		3	17	83	MERRIMACK
3						3	1		2		1	1		3		3	11	36	COLLEGE MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM., BIOPHYS.	PHYSIOL., BIOSTATST	ANAT., CYTOL., EXPERIM. GENET., MICROBIOL., PARASITOL.	ECOLOGY, INTERNSHIPS	BOT., BOOL., GEN BIOL
MEADVILLE THEOL SCHOOL ILL	1920-66 1960-66																				
MEDICAL COLL OF SOUTH CAROLINA	1920-66 1960-66													2 1		2	1				
MEDICAL COLLEGE OF VIRGINIA	1920-66 1960-66	7 3					7 5	1						8 3		8 2	1	1			
MEMPHIS STATE UNIVERSITY	1920-66 1960-66	27 14	5 2	2 3			20 14	5 5	5		1			19 11	1	1	4 2	5 2		2	
MERCER UNIVERSITY GA	1920-66 1960-66	15 5	1 1	2 1			10 1	2 1						15 5	2 1	1 1	2 2	2 2	1	2 1	
MERCY COLLEGE OF DETROIT	1920-66 1960-66	1 1					1 1	1 1						3 3			2 2	1 1			
MERCYHURST COLLEGE PA	1920-66 1960-66	3	1				2														
MEREDITH COLLEGE N C	1920-66 1960-66	2					2		1					2 1			2 1			1	
MERRIMACK COLLEGE MASS	1920-66 1960-66	5 5					5 5	2 2			2 2			5 5			5 5				
MIAMI UNIV OHIO	1920-66 1960-66	204 61	16 8	22 21	2 2	5 4	24 14	16 7	12 6	22 12	8 5	2	1	113 24	10 4	2	18 5	20 6		25 15	
MIAMI, UNIVERSITY OF	1920-66 1960-66	74 44	10 16	5 3		1	51 19	8 6	5 3	5 4	5 6		4	82 32	5 4	2 4	13 7	11 6	2 1	10 8	
MICHIGAN STATE UNIVERSITY	1920-66 1960-66	288 142	24 15	22 16	5 4	2 4	126 56	18 13	16 8	18 11	51 41	13 9	17 14	933 102	270 70	37 16	82 38	112 55	1 1	25 24	
MICHIGAN TECHNOL UNIV	1920-66 1960-66	130 77	5 5	5 3	2 2	2 3	71 5	3 3	3 3	12 12	24 46	15 6	13 7	13 8	2 4		2 3	2 1		2	
MICHIGAN, UNIVERSITY OF	1920-66 1960-66	1250 424	123 43	247 83	23 20	15 4	357 82	24 40	32 16	33 20	161 165	120 53	33 20	111 160	23 29	28 19	23 34	35 34	13 1	152 44	
MIDDLEBURY COLLEGE VT	1920-66 1960-66	33 34	8 3	15 6	1 1		22 18	21 14	1 1	13 3	5 4	2 1		35 6	1	1	15 5	4	1	15 3	
MIDDLE TENN STATE UNIV	1920-66 1960-66	21 13	1 1	1 1			18 6	3 3	3 3		1 1			3 4			2 1	3 1		3 3	
MIDLAND LUTHER COLLEGE NEBR	1920-66 1960-66	4	3	1			2			1	1	1		2			1			1	
MINNESTERN UNIVERSITY TEX	1920-66 1960-66	8 8					7 4	2 2	1 1	1 1				3 3	1 1			1 1		1 1	
MILES COLLEGE ALA	1920-66 1960-66													2 2						2 2	
MILLERSVILLE STATE COLL PA	1920-66 1960-66													2 2				1 1		1 1	
MILLIKIN COLLEGE TENN	1920-66 1960-66													2 2			1 1			1 1	
MILLIKIN UNIVERSITY ILL	1920-66 1960-66	40 19	2 2	4 4	1 1	1 1	30 9	8 8	1 1	1 1	1 1			18 4			3 3	5 3		4 1	
MILLS COLLEGE CAL	1920-66 1960-66	2					2 2							2 2		1 1	2 1	1 1		1 1	
MILLSAPS COLLEGE MISS	1920-66 1960-66	23 12	4 1	5 5			13 7	1 1	5 3	2 1				10 4	1 1	2 2	1 1	1 1		3 3	
MILTON COLLEGE WISC	1920-66 1960-66	7 1		1 1			5 1	1 1						12 1		1 1	2 1	1 1		5 1	
MILWAUKEE SCH OF ENGINEERING	1920-66 1960-66	12 5		1 1	1 1						3 3		3 3								
MINNESOTA, UNIVERSITY OF	1920-66 1960-66	896 240	84 21	122 12	5 1	13 2	517 17	28 28	31 11	17 12	198 136	15 15	18 18	835 216	152 52	18 13	129 13	151 11	1 1	138 38	
MINOT STATE COLLEGE N D	1920-66 1960-66													5 5	2 2		1 1	1 1			
MISSISSIPPI COLLEGE	1920-66 1960-66	33 10	3 1	12 3		1 1	18 8	3 3	3 2		1 1	1 1		12 3		2 2	2 1	2 1	1 1	12 3	
MISSISSIPPI, UNIVERSITY OF	1920-66 1960-66	2 1					2 1		1 1												

Doctorates by Field																				Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS		
1			1			1					1							2	MEADVILLE THEOL SCHOOL ILL	
																		3	MEDICAL COLL OF	
																		1	SOUTH CAROLINA	
																	1	16	MEDICAL COLLEGE	
																	1	6	OF VIRGINIA	
17	9		1	2	2	20	10	4	2	3		1		3	2		25	111	MEMPHIS STATE	
13	7			2	2	9	4	3	1	1				1	1		8	61	UNIVERSITY	
15	11		1	1	2	26	13	9	1		2	1		10	1	6	36	115	MERCER	
7	5			1	1	9	5	3				1		3		2	16	45	UNIVERSITY GA	
						2	1						1	1			1	8	MERCY COLLEGE	
						2	1						1	1			1	8	OF DETROIT	
1	1					2		1	1					2		2	2	10	MERCYHURST	
														1		1		1	COLLEGE PA	
2	1			1		12	1	11						1		1	5	25	MEREDITH	
						1		1						1		1	5	8	COLLEGE N C	
5			1	2		1					1							17	MERRIMACK	
3				1														11	COLLEGE MASS	
129	52	5	18	34	13	108	35	36	24	2	2	3	5	22	17		85	661	MIAMI	
43	18	2	5	9	6	27	4	13	5			2	3	8	8		43	207	UNIV OHIO	
75	59		1	11	3	60	17	21	10		4	3	4	10	6	2	41	323	MIAMI,	
40	32			6	1	33	10	12	3		3	2	2	8	6	1	27	185	UNIVERSITY OF	
168	66	3	26	57	10	87	26	23	6		6	7	18	30	17	1	164	1290	MICHIGAN STATE	
79	34	3	12	21	6	50	13	13	2		5	3	13	21	12		92	565	UNIVERSITY	
3				2	1									3	2	1	1	150	MICHIGAN	
2				2										3	2	1	1	91	TECHNOL UNIV	
599	269	35	53	111	79	539	122	150	110	19	49	51	32	86	53	14	301	3326	MICHIGAN,	
194	101	8	19	26	30	181	33	51	40	6	12	22	17	39	28	4	122	1110	UNIVERSITY OF	
48	14	2		17	11	62	11	26	15		4		6	7	2	3	35	280	MIDDLEBURY	
17	9			4	2	25	3	11	6		1		4	4	1	1	13	99	COLLEGE VT	
11	1		3	5	2	10	3	6									44	95	MIDDLE TENN	
4			1	2	1	4		3									18	43	STATE UNIV	
6	2		1	1	1	13	6		2		4		1	8	1	6	33	70	MIDLAND LUTHER	
1						2	1				1			2		1	13	18	COLLEGE NEBR	
1				1		4		1	1			1	1				5	21	MIDWESTERN	
1				1		4		1	1			1	1				5	19	UNIVERSITY TEX	
2			1		1												2	6	MILES	
																		2	COLLEGE ALA	
7	2		1		2	8	5	3									57	75	MILLERSVILLE	
3					2	3	3										29	37	STATE COLL PA	
6	2	1		3		3	3										10	21	MILLIGAN	
2	1	1				1	1										2	7	COLLEGE TENN	
13	4		1	2	5	19	2	6	4		1	2	4	4	2		19	113	MILLIKIN	
3	1				2	6	1	2	1			2		2	2		6	34	UNIVERSITY ILL	
11	8	1	1	1		13	1	4	2		1		5	1	1		16	51	MILLS	
1	1					4			1				3				6	13	COLLEGE CAL	
29	16		4	6	3	33	10	9	5	1	4	1	3	13		13	24	138	MILLSAPS	
15	9		2	2	2	15		5	1	1	4	1	3	8		8	8	63	COLLEGE MISS	
2				1	1	9	4	1	1	1		1	1	1	1		4	35	MILTON	
						2			1				1	1	1		1	6	COLLEGE WISC	
																		10	MILWAUKEE SCH	
																		3	OF ENGINEERING	
640	300	22	59	150	82	396	82	110	76	6	38	54	25	106	46	18	461	3374	MINNESOTA,	
220	96	10	17	52	29	129	18	35	25		15	22	14	41	26	9	189	1108	UNIVERSITY OF	
4	1		2			1	1										22	31	MINOT STATE	
1			1			1	1										13	18	COLLEGE N D	
16	7		6	1	2	35	12	9	5	3	2	4		6	1	5	25	152	MISSISSIPPI	
4	4					17	5	4	2	1	1	4		1		1	11	50	COLLEGE	
														1			2	5	MISSISSIPPI	
																		1	INDUST COLL	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
MISS STATE COLL	1920-66												7				3		4
FOR WOMEN	1960-66												2				1		1
MISSISSIPPI	1920-66	115	6	9	2		42	8	6	9	49	7	14	163	75	3	12	49		24
ST UNIVERSITY	1960-66	57	2	6	2		11	7	4	4	34	4	9	50	25	1	5	16		3
MISSISSIPPI,	1920-66	60	15	14			20	5	1	1	10	5	1	19	1	5	6	3		4
UNIVERSITY OF	1960-66	19	4	2			6	3		1	6	4	1	5		3	1			1
MISSOURI, UNIV	1920-66	317	28	48	2	11	121	22	13	38	82	10	23	390	170	27	77	48	1	67
OF, COLUMBIA	1960-66	100	10	16	2	8	24	14	3	9	41	4	13	140	66	15	25	20	1	13
MISSOURI, UNIV	1920-66	27	3	2			19	1	4	2	1			19	1	3	3	7		5
OF, KANS CITY	1960-66	11	1				8	1	2	2				7		2	2	2		1
MISSOURI, UNIV	1920-66	169	4	23	2	9	20	6	3	20	102	14	4	6		1	5			
OF, AT ROLLA	1960-66	89	3	14	2	9	6	4	1	6	60	9	2	2		1	1			
MISSOURI VALLEY	1920-66	21	3	3			11				4		1	3			1	1		1
COLLEGE MO	1960-66	5		2			1				2		1	1						1
MONMOUTH	1920-66	1					1	1												
COLLEGE N J	1960-66	1					1	1												
MONMOUTH	1920-66	80	3	2	1		67	10	3	4	4	1		22	2	2	8	5		5
COLLEGE ILL	1960-66	15	1	1	1		11	6	2	1	1			3	1		2			
MONT COLL MIN	1920-66	35	1	1			1			14	18	1								
SCI & TECH	1960-66	14								7	7									
MONTANA STATE	1920-66	172	8	38		1	76	13	5	4	46	26	7	144	41	11	33	41	3	15
UNIVERSITY	1960-66	55	6	16		1	13	7	1	2	18	11	3	49	16	1	10	13	3	6
MONTANA,	1920-66	108	11	18	3		51	10	4	24	4	1		99	13	11	12	22	4	37
UNIVERSITY OF	1960-66	21	6	5	3		5	2	1	3	2			30	4	4	5	6	3	8
MONTCLAIR	1920-66	9	3				5				1			14			6	2		6
STATE COLL N J	1960-66	3	2				1							6			2	2		2
MOORHEAD STATE	1920-66													10			1			9
COLLEGE MINN	1960-66													7			1			6
MORAVIAN	1920-66	7		2			5	2	1					13				9		4
COLLEGE PA	1960-66	4		1			3	1	1					2				2		
MOREHEAD STATE	1920-66	3		1			2	1						2				1		1
COLLEGE KY	1960-66													1				1		
MOREHOUSE	1920-66	17	2	3		1	12	2	5					17			3	3		11
COLLEGE GA	1960-66	14	2	3		1	9	2	4					3			1	1		1
MORGAN STATE	1920-66	5	1	1		1	3							6			4			2
COLLEGE MD	1960-66	3	1	1		1	1							3			2			1
MORNINGSIDE	1920-66	23	4	8		2	10	5	1		1			10	1	1	1	1		6
COLLEGE IOWA	1960-66	4	1	2		2	1	1												
MORRIS BROWN	1920-66													2						2
COLLEGE GA	1960-66													1						1
MORRIS HARVEY	1920-66	11					11	4	1					11	2		1	7		1
COLLEGE W VA	1960-66	2					2	2						5	2			3		
MOUNT ANGEL	1920-66																			
COLLEGE OREG	1960-66																			
MOUNT ANGEL	1920-66																			
SEMINARY OREG	1960-66																			
MOUNT HOLYOKE	1920-66	82	6	9			65	16	4	2				118		11	34	23	1	49
COLLEGE MASS	1960-66	16	2	5			9	7	2					16			9	3		4
MOUNT MARTY	1920-66													1						1
COLLEGE S D	1960-66																			
MOUNT MARY	1920-66	3	2				1	1						4			2	1		1
COLLEGE WISC	1960-66	1	1											1			1			
MOUNT MERCY	1920-66	2					2							5			1	2		2
COLLEGE PA	1960-66	1					1							3			1	1		1
MOUNT ST AGNES	1920-66	1					1							2				2		
COLLEGE MD	1960-66													1				1		
MT ST ALPHONSUS	1920-66																			
SEMINARY N Y	1960-66																			
MOUNT ST JOSEPH	1920-66	1	1																	
COLLEGE N Y	1960-66	1	1																	

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	2					8	2	4	2					3			6	26	MISS STATE COLL
						1		1						1			3	7	FOR WOMEN
29	1		2	21	4	10	6	3	1					10	8	1	37	364	MISSISSIPPI
10			2	7		6	5		1					7	5	1	13	143	ST UNIVERSITY
40	18		6	10	6	48	23	18	4	1		1		13	6	1	26	206	MISSISSIPPI,
12	5		2	4	1	12	5	6				1		6	3	1	12	66	UNIVERSITY OF
269	79	5	33	110	29	177	50	65	30	7	4	13	8	49	25	7	258	1460	MISSOURI, UNIV
96	30	1	9	46	6	51	20	13	4	1		7	6	12	8	1	87	486	OF, COLUMBIA
29	14	1	5	2	5	37	12	15	4		1	1	4	5	2	2	28	145	MISSOURI, UNIV
13	4	1	2	1	4	19	6	7	1		1	1	3	3	2		16	69	OF, KANS CITY
																	2	178	MISSOURI, UNIV
1	1																	94	OF, AT ROLLA
1	1																2		
4	2		1	1		6	2	2	1		1			4	1	3	20	58	MISSOURI VALLEY
2	1		1			2	1		1					2		2	4	16	COLLEGE MO
																		5	MONMOUTH
4	3			1														4	COLLEGE N J
3	3																		
15	4		1	5	5	25	5	5		2	4	5	4	5	1	4	26	173	MONMOUTH
5	1		1	1	2	9	2	2			2		3	1		1	13	46	COLLEGE ILL
																	1	36	MONT COLL MIN
																		14	SCI & TECH
25				23	2	5	1	2			1	1		2	1		31	379	MONTANA STATE
15				13	2	3		2				1		1	1		16	139	UNIVERSITY
62	30	5	7	10	10	40	13	8	8		2	6	3	18	5	2	41	368	MONTANA,
32	19		2	5	6	15	4	1	2		2	3	3	7	3	1	17	122	UNIVERSITY OF
15	1		3	1	8	21	5	6	4			6		1	1		103	163	MONTCLAIR
7	1			1	4	9	4	1				4					52	77	STATE COLL N J
9	3			1	2	5	1	2				1	1				36	60	MOORHEAD STATE
2	1				1	3	1	1					1				12	24	COLLEGE MINN
6	1		1	1		9		4	1	3	1			3		3	9	47	MORAVIAN
						3		2		1							4	13	COLLEGE PA
2			1			5	1	4									14	26	MOREHEAD STATE
2			1			2	1	1									8	13	COLLEGE KY
29	4		12	5	6	15	4	4	2		1	2	2	10	2	6	27	115	MOREHOUSE
12	3		4	1	3	2	1						1	5	2	1	8	44	COLLEGE GA
10	5		2	1	1	5	2	2				1					19	45	MORGAN STATE
8	4		2		1	1		1									9	24	COLLEGE MD
14	4		4	2	3	28	10	2	4		3	5	4	7	2	4	36	118	MORNINGSIDE
2				1	1	7		1	1		1	2	2	1	1		18	32	COLLEGE IOWA
						1		1						1		1	5	9	MORRIS BROWN
																	2	3	COLLEGE GA
7	3		2	1	1	5	4						1				6	40	MORRIS HARVEY
3	2		1			4	3						1				4	18	COLLEGE W VA
																	3	3	MOUNT ANGEL
																	3	3	COLLEGE OREG
2			2			1					1			1		1	1	5	MOUNT ANGEL
1			1			1					1							2	SEMINARY OREG
60	28	5	3	13	8	114	29	41	25	9	5	3	2	5		3	24	403	MOUNT HOLYOKE
15	9		1	3		20	3	9	5	1	2			1		1	6	74	COLLEGE MASS
1			1			2	1	1						1		1	2	7	MOUNT MARTY
						1	1										1	2	COLLEGE S D
2	1		1			7	1	1	2	1	1	1		2		2	4	22	MOUNT MARY
1	1					3	1			1		1					2	8	COLLEGE WISC
1	1					6	1	3	2								4	18	MOUNT MERCY
						3	1	2									4	11	COLLEGE PA
2	1		1			1			1								2	8	MOUNT ST AGNES
2	1		1														1	4	COLLEGE MD
																		2	MT ST ALPHONSUS
2			2															1	SEMINARY N Y
1			1																
						1			1								6	8	MOUNT ST JOSEPH
						1			1								2	4	COLLEGE N Y

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																			
MT ST JOSEPH,	1920-66	2					2							3			1	1		1	
COLL, ON OHIO	1960-66	1					1							1			1				
MOUNT ST MARY	1920-66													1			1				
COLLEGE N H	1960-66													1			1				
MOUNT ST MARYS	1920-66	11		2			8	1	3	1				11			4	5		2	
COLLEGE MD	1960-66	4					3	1	2	1				7			2	5			
MOUNT ST MARYS	1920-66	4	2				2	1	1					2			1	1			
COLLEGE CAL	1960-66	1	1																		
MT ST SCHOLAS-	1920-66													4			2	1		1	
TICA COLL KAN	1960-66													1			1				
MT ST VINCENT,	1920-66	4					4							5			4			1	
COLL OF, N Y	1960-66													1			1				
MOUNT UNION	1920-66	55	2	4			41	4	5	6	2			21			5	12		4	
COLLEGE OHIO	1960-66	10		1			6	2	2	3				6			1	4		1	
MUHLENBERG	1920-66	57	4	18		3	31	9	5	4				37		3	7	19		8	
COLLEGE PA	1960-66	21	1	7		3	13	7	3					14			4	8		2	
MULTNOMAH SCH	1920-66																				
OF BIBLE OREG	1960-66																				
MUNDELEIN	1920-66	4		1			3		1					9		1	4	2		2	
COLLEGE ILL	1960-66	2					2		1					5			3	1		1	
MURRAY STATE	1920-66	30	4	7			17	5	1	1	1			23	12	2	1	1		7	
COLLEGE KY	1960-66	18	2	6			8	4	1	1	1			10	9					1	
MUSKINGUM	1920-66	45		8			32	2	5	3	2	1		15	1	1	3	3	1	6	
COLLEGE OHIO	1960-66	8					7	1	4	1				4	1		1	1	1		
NASHOTAH	1920-66																				
HOUSE WISC	1960-66																				
NATIONAL COLL	1920-66																				
OF EDUC ILL	1960-66																				
NAZARETH	1920-66	3	1				2		2					1						1	
COLLEGE N Y	1960-66	2					2		2												
NAZARETH	1920-66	3	1				2		1												
COLLEGE MICH	1960-66	2					2		1												
NAZARETH	1920-66	1	1																		
COLLEGE OF KY	1960-66	1	1																		
NEBRASKA,	1920-66	314	30	37	1	1	150	38	17	25	72	18	16	396	140	47	44	73	2	90	
UNIVERSITY OF	1960-66	97	15	6		1	22	14	5	9	45	15	10	111	48	6	22	21	1	13	
NEBRASKA WESLE-	1920-66	41	5	20		2	16		1					35	2	3	12	6		12	
YAN UNIVERSITY	1960-66	9	2	5		1	2							5		1	2	1		1	
NER ISRAEL RAB-	1920-66																				
BINICAL COL MD	1960-66																				
NEVADA,	1920-66	57	5	13	1	3	21	2	8	10	8	3	1	20	1	1	7	3	1	7	
UNIVERSITY OF	1960-66	26	3	7	1	3	7	1	5	5	4	2	1	9	1	1	3		1	3	
NEW BRUNSWICK	1920-66	1		1																	
THEOL SEM	1960-66																				
NEW ENGLAND	1920-66	1					1														
COLLEGE N H	1960-66	1					1														
NEW ENGLAND COL	1920-66	4					4							10		8	2				
OF PHARM MASS	1960-66	3					3							4		4					
NEW ENGLD CONS	1920-66																				
OF MUSIC MASS	1960-66																				
NEW HAMPSHIRE,	1920-66	177	6	21	2	4	104	10	13	25	21	4	4	167	57	11	23	40	2	34	
UNIVERSITY OF	1960-66	52	3	9	1	3	18	5	6	12	10	3	2	58	20	3	11	13	1	10	
NEW HAVEN	1920-66																				
COLLEGE CONN	1960-66																				
NEW MEXICO	1920-66	2		1		1	1	1						3	1					2	
HIGHLANDS UNIV	1960-66	2		1		1	1	1						1						1	
NEW MEXICO INST	1920-66	16	1	1			5	1	1	5	4			1			1				
OF MIN & TECH	1960-66	9	1	1			4	1	1	1	2			1			1				
NEW MEXICO	1920-66	40	6	12	3	1	5			1	16	3	4	64	37	2	3	10		12	
STATE UNIV	1960-66	26	5	12	3	1	1				8	2	3	24	11	1	2	6		4	

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	1		1			1					1			2		2	2	12	MT ST JOSEPH,
1			1											1		1	1	5	COLL, ON OHIO
						5	2	3									1	7	MOUNT ST MARY
						2		2									1	4	COLLEGE N H
3	2		1			14	2	1		2	8	1		2			6	47	MOUNT ST MARYS
1			1			1					1			1			4	18	COLLEGE MD
6	2		2	1	1	5	2	1	1		1			1		1	2	20	MOUNT ST MARYS
4	1		2		1	2	1				1						1	8	COLLEGE CAL
3		1	1		1	9	1	3	1	1	2		1	2		2	5	23	MT ST SCHOLAS-
1		1				1							1	2		2	3	8	TICA COLL KAN
11	7		2			32	6	6	6	1	10						18	70	MT ST VINCENT,
5	2		1			5	1	3	1								5	16	COLL OF, N Y
5	4				1	18	7	7	2		1		1	9		9	29	137	MOUNT UNION
3	2				1	5	2	2	1					1		1	8	33	COLLEGE OHIO
22	10	1	5	1	2	53	13	14	14	5	3	3		18	4	13	30	217	MUHLENBERG
7	4		2		1	14	2	4	4	1		3		4	1	3	7	67	COLLEGE PA
2	1			1														2	MULTNOMAH SCH
2	1			1														2	OF BIBLE OREG
9	6		2	1		11	2	6		1	2			1		1	5	39	MUNDELEIN
7	5		1	1		8	2	4			2						3	25	COLLEGE ILL
6	1			4	1	20	3	6			1	4	6	5	3	1	47	131	MURRAY STATE
4	1			3		7	2	1				2	2	3	3		22	64	COLLEGE KY
32	19	1	2	3	5	31	6	7	5	1	2	10		7	1	3	45	175	MUSKINGUM
8	6	1			1	7	2	1	2			2		1		1	8	36	COLLEGE OHIO
						1					1							1	NASHOTAH
																			HOUSE WISC
																	9	9	NATIONAL COLL
																	4	4	OF EDUC ILL
						6		3			1	2		1		1	3	14	NAZARETH
						2		2									2	6	COLLEGE N Y
						3		1			2			1		1	1	8	NAZARETH
						2					2						1	5	COLLEGE MICH
																		1	NAZARETH
																		1	COLLEGE OF KY
256	90	10	24	90	22	159	38	40	19	9	15	20	17	38	19	3	257	1420	NEBRASKA,
74	26	2	6	30	7	50	8	12	9	1	3	7	9	11	6	1	108	451	UNIVERSITY OF
36	17		4	2	5	18	5	3	1		3	5	1	7	1	6	58	195	NEBRASKA WESLE-
5	1			1	1	2			1			1					18	39	YAN UNIVERSITY
1	1					1	1											2	NER ISRAEL RAB-
1	1																	1	BINICAL COL MD
22	11		1	9		18	9	4	4				1	5	3		22	144	NEVADA,
9	7		1			7	2	2	2				1	1			12	64	UNIVERSITY OF
																		1	NEW BRUNSWICK
																			THEOL SEM
1																		2	NEW ENGLAND
1																		2	COLLEGE N H
																		14	NEW ENGLAND COL
																		7	OF PHARM MASS
						7							7				7	14	NEW ENGLD CONS
						5							5				4	9	OF MUSIC MASS
62	32		4	16	8	34	11	15	3		3	1	1	5	1	1	71	516	NEW HAMPSHIRE,
23	12		1	6	3	14	2	9	1		2			4	1		24	175	UNIVERSITY OF
																	2	2	NEW HAVEN
																	2	2	COLLEGE CONN
6	3				2	3	1	2									12	26	NEW MEXICO
3	1				1	2	1	1									7	15	HIGHLANDS UNIV
																		17	NEW MEXICO INST
																		10	OF MIN & TECH
17	6		4	6		4	1	1	2								11	136	NEW MEXICO
9	3		1	5		3	1	1	1								8	70	STATE UNIV

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
NEW MEXICO, UNIVERSITY OF	1920-66	102	11	18	5	1	28	5	6	18	27	5	7	31	1	3	7	3	1	16	
	1960-66	53	4	11	5	1	13	4	5	12	13	4	4	10		2	2		1	5	
NEW MEXICO JUNIOR COLLEGE	1920-66																				
	1960-66																				
NEW PALTZ, SUNY COLL AT	1920-66													3				2		1	
	1960-66													3				2		1	
NEW ROCHELLE, COLL OF, N Y	1920-66	3					3							9			2	4		3	
	1960-66													2				2			
NEW SCHOOL FOR SOCIAL RES N Y	1920-66																				
	1960-66																				
NEW YORK INST OF TECHNOLOGY	1920-66																				
	1960-66																				
NEW YORK LAW SCHOOL	1920-66																				
	1960-66																				
NEW YORK MEDICAL COLL	1920-66													1		1					
	1960-66																				
NEW YORK UNIVERSITY	1920-66	668	99	90	4	6	279	45	44	37	163	23	18	298	4	26	106	72	2	88	
	1960-66	209	28	27	4	5	60	26	20	7	87	13	12	91	1	9	40	25	2	14	
NEW YORK JUNIOR COLLEGE	1920-66	1		1		1															
	1960-66	1		1		1															
NEWARK COLLEGE OF ENGINEERING	1920-66	76	1	6	1		9	1	2		60	20	10								
	1960-66	45	1	3	1		3		2		38	15	5								
NEWARK STATE COLLEGE N J	1920-66	1					1														
	1960-66																				
NEWBERRY COLLEGE S C	1920-66	12		1			11	2	1					1		1					
	1960-66	5					5	1	1												
NEWCOMB COLLEGE LA	1920-66	9	1	2	1	1	6		2					5		1	1	2		1	
	1960-66	2		1		1	1							3		1	1	1			
NEWTON COLL OF SACRED HT MASS	1920-66													1			1				
	1960-66													1			1				
NIAGARA UNIVERSITY N Y	1920-66	25	2	1			20	4	4	2				5		1	4				
	1960-66	11	2	1			6	2	3	2											
NORTH ADAMS, ST COL AT, MASS	1920-66																				
	1960-66																				
NORTH CAROLINA COLL AT DURHAM	1920-66	7	2				5	3	1					8			1	1		6	
	1960-66	4	2				2	1	1					2			1			1	
N C STATE UNIV AT RALEIGH	1920-66	167	17	21		1	14	1	4	1	114	22	15	150	85	4	19	19	3	20	
	1960-66	112	16	16		1	4	1	3		76	9	11	61	35	2	9	8	2	5	
NORTH CAROLINA, UNIVERSITY OF	1920-66	264	32	48	6	7	149	35	15	24	11	4	3	109	10	19	17	19	2	42	
	1960-66	82	11	19	4	7	41	14	8	9	2	1	1	34	2	5	7	10	1	9	
NORTH CAR, U OF GREENSBORO	1920-66	2					2							20	1	1	3	4		11	
	1960-66													5		1	2	1		1	
NORTH CENTRAL COLLEGE ILL	1920-66	35	3	14			17	8			1	1		46	2	9	20	6		9	
	1960-66	7		1			6	4						16	2	2	10	1		1	
NORTH DAKOTA STATE UNIV	1920-66	80	4	3			48	6	13	2	23		10	127	49	4	29	28	1	16	
	1960-66	31	1	1			16	3	7		13		4	52	21	3	16	9		3	
NORTH DAKOTA, UNIVERSITY OF	1920-66	80	2	14		1	41	6	8	9	14	2	4	30	1	4	13	4		8	
	1960-66	28	2	3		1	10	4	3	6	7	1	2	7	1	1	2	1		2	
NORTH GEORGIA COLLEGE	1920-66	9	1	2			6	1						4				3		1	
	1960-66	3	1				2	1						2				1		1	
NORTH PARK COLL & THEO SEM ILL	1920-66	3					3							2		1	1				
	1960-66																				
NORTH TEXAS STATE UNIV	1920-66	99	19	18		3	54	10	6	2	6		1	52	1	3	20	12	1	15	
	1960-66	35	8	9		3	12	3	5	2	4			17		1	5	6	1	4	
NORTHEAST LA STATE COLL	1920-66	4		1			3	1	2					1	1						
	1960-66	4		1			3	1	2					1	1						
NE MISSOURI ST TEACH COLL	1920-66	29	7	7			14	1		1				14	5		4	1		4	
	1960-66	4	2				1			1											
NORTHEASTERN UNIV MASS	1920-66	126	6	14	1	4	59	16	12		47	11	8	28		4	13	6		5	
	1960-66	59	2	6	1	4	25	9	7		26	6	4	10			8			2	

Doctorates by Field																			Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
93	26	45	3	6	11	60	17	15	14		4	5	5	9	2	4	43	338	NEW MEXICO,
41	13	16	1	6	3	20	6	3	4		2	2	3	6		4	24	154	UNIVERSITY OF
																	2	3	NEW MEXICO
1		1															1	1	JUNIOR COLLEGE
																	26	31	NEW PALTZ,
1						1	1										18	23	SUNY COLL AT
1						1	1												
																1	11	66	NEW ROCHELLE,
10	10					32	8	11	5	1	2	1		1		1	2	20	COLL OF, N Y
6	6					9	1	5	2	1				1					
																	4	40	NEW SCHOOL FOR
28	16	2	4	1	4	8	2	3	1		1		1				2	21	SOCIAL RES N Y
15	11	1	1	1	1	4	2	2											
																		1	NEW YORK INST
						1				1								1	OF TECHNOLOGY
						1				1									
														1	1		1	3	NEW YORK
1			1														1	1	LAW SCHOOL
																		2	NEW YORK
						1					1								MEDICAL COLL
665	415	26	45	106	54	392	76	116	95	15	37	13	36	109	55	21	645	2777	NEW YORK
236	148	4	17	30	23	156	39	48	34	7	10	4	12	22	14	2	197	911	UNIVERSITY
						4		1		1	2			2		2		7	NEW YORK
						4		1		1	2			1		1		6	JUNIOR COLLEGE
				1		1					1			2	2		3	83	NEWARK COLLEGE
1				1										2	2		1	49	OF ENGINEERING
1																			
												1	1				35	38	NEWARK STATE
						2						1					18	19	COLLEGE N J
						1													
																	12	31	NEWBERRY
4	1		1	1		2		2									5	11	COLLEGE S C
1				1															
																	5	43	NEWCOMB
8	6		1			16	1	9	5	1							2	15	COLLEGE LA
2	1					6	1	3	2										
																		1	NEWTON COLL OF
																		1	SACRED HT MASS
								4	2	2	4	1		1		1	16	69	NIAGARA
8	1		1	4	1	14		3		2	2	1					8	28	UNIVERSITY N Y
1						8													
																	7	9	NORTH ADAMS,
1	1					1	1										5	6	ST COL AT,MASS
1	1																		
											1	1	1				12	36	NORTH CAROLINA
2	1			1		7	3	1					1				8	18	COLL AT DURHAM
1	1					3	1	1											
												1		5	2	2	20	383	N C STATE UNIV
37	6		4	26		4	3							1	1		12	204	AT RALEIGH
17	3		1	13		1	1												
160	49	9	29	42	24	262	64	98	47	14	5	13	18	34	15	9	106	935	NORTH CAROLINA,
53	20	5	6	10	8	79	18	25	15	2	1	6	11	19	11	3	45	312	UNIVERSITY OF
												1	1	6		1	23	85	NORTH CAR, U OF
10	6		3	1		24	9	6	6	1		1	1	4			10	32	GREENSBORO
4	3		1			9	4	1	2										
																	26	181	NORTH CENTRAL
29	15		5	5	4	33	7	7	5	2	3	7	2	12	2	10	10	60	COLLEGE ILL
13	9		2		2	9	3	1	2		1	2		5	1	4			
												2		3		2	30	275	NORTH DAKOTA
32	5		2	25		3		1				2		1			14	116	STATE UNIV
15	2		1	12		3		1											
												3	2	10	7	1	48	258	NORTH DAKOTA,
56	23	1	6	14	8	34	16	8	3	1	1	1	1	3	3		22	83	UNIVERSITY OF
16	8		3	3	1	7	2	2			1								
																	2	20	NORTH GEORGIA
4	1			2	1	1		1									1	9	COLLEGE
2				1	1	1		1											
																		9	NORTH PARK COLL
3	3					1	1											1	& THEO SEM ILL
						1	1												
																	229	534	NORTH TEXAS
59	23		6	17	11	66	21	19	6		3	4	13	29	24		93	232	STATE UNIV
28	14		3	4	6	38	11	12	3		2	3	7	21	16				
														1	1		1	8	NORTHEAST LA
1				1										1	1		1	8	STATE COLL
1				1															
												6	1	6	3	1	96	189	NE MISSOURI
16	3		2	2	8	28	16	4	1			4		1			32	45	ST TEACH COLL
3	1		1		1	5	1												
														2		2	18	228	NORTHEASTERN
42	24		3	11	3	12	6	3	1		2			1		1	8	100	UNIV MASS
17	7		2	6	2	5	3	1	1										

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
NORTHEASTERN	1920-66	4	2				2							4				1			3
STATE COL OKLA	1960-66	2	1				1							3				1			2
NORTHERN	1920-66	9	1				6		2	1	1			2			1				1
ARIZONA UNIV	1960-66	6	1				3		2	1	1			1							1
NORTHERN BAPT	1920-66																				
THEOL SEM ILL	1960-66																				
NORTHERN ILL	1920-66	16	3				10		3	1	2		1	32	1		5	8	1		17
UNIVERSITY	1960-66	10	1				7		3	1	1		1	11			3	4			4
NORTHERN	1920-66	9	2	1			3			1	2			13	3	1		3			6
MICHIGAN UNIV	1960-66	2	1								1			4	2			1			1
NORTHERN	1920-66	5					4		1		1			6		1	1	2			2
STATE COLL S D	1960-66	1					1		1					1				1			
NORTHLAND	1920-66	4	1				3	2						8	2	1		3	1		1
COLLEGE WISC	1960-66	2	1				1	1						2				2			
NW CHRISTIAN	1920-66	1		1																	
COLLEGE OREG	1960-66	1		1																	
NW MISSOURI	1920-66	19	3	5		1	10	3	3	1				10	3	1	2	2			2
STATE COLLEGE	1960-66	7	1	1		1	5	1	3					6	2		2	1			1
NORTHWEST	1920-66	1		1										3		1	1				1
NAZARENE C IDA	1960-66	1		1										2			1				1
NORTHWESTERN	1920-66													2	1	1					
COLLEGE WISC	1960-66																				
NORTHWESTERN	1920-66													1			1				
COLLEGE MINN	1960-66													1			1				
NORTHWESTERN	1920-66	10	2				8	2	3					10		1	2	2			5
STATE COL OKLA	1960-66	6	1				5	2	3					9		1	2	2			4
NORTHWESTERN	1920-66	15	3	3	1		9	4	2					13	1		2	5			5
ST COLL OF LA	1960-66	9	2	2	1		5	3						4				4			
NORTHWESTERN	1920-66	452	51	65	5	8	170	32	24	27	139	33	29	173	4	30	58	31	3		47
UNIVERSITY ILL	1960-66	158	15	22	5	7	41	13	13	5	75	18	15	50	1	11	21	11	2		4
NORWICH	1920-66	12					8	1	4		4			4	1		1	1			1
UNIVERSITY VT	1960-66	4					2		1		2			2			1	1			
NOTRE DAME	1920-66													1			1				
COLLEGE MO	1960-66													1			1				
NOTRE DAME	1920-66	2		1			1							3			1				2
COLLEGE OHIO	1960-66													1			1				
NOTRE DAME,	1920-66	1					1		1					2			2				
COLL OF, CAL	1960-66													2			2				
NOTRE DAME COLL	1920-66													2							2
OF STATEN IS	1960-66																				
NOTRE DAME OF	1920-66	5	2				3	1	1					4		2	1	1			
MD, COLL OF	1960-66	2	1				1		1												
NOTRE DAME	1920-66																				
SEMINARY LA	1960-66																				
NOTRE DAME,	1920-66	372	26	57	1	13	163	64	20	12	114	24	13	52		9	14	12	1		16
UNIV OF, IND	1960-66	173	11	33		11	41	26	8	7	81	14	13	21		6	8	4	1		2
NYACK MISSION-	1920-66																				
ARY COLL N Y	1960-66																				
OAKLAND CITY	1920-66	9	6	2			1							1				1			
COLLEGE IND	1960-66	2	2																		
OAKWOOD	1920-66	1					1	1						2			1				1
COLLEGE ALA	1960-66													2			1				1
OBERLIN COLLEGE	1920-66	433	47	125	7	12	223	44	37	30	8		1	194	11	13	61	19	4		86
OHIO	1960-66	118	23	32	7	9	50	23	18	9	4		1	61	1	7	23	9	2		19
OBLATE COLL OF	1920-66																				
SOUTHWEST TEX	1960-66																				
OCCIDENTAL	1920-66	63	6	17	4	1	23	5	4	15	2	1	1	27	2	1	8	8			8
COLLEGE CAL	1960-66	32	7	11	4	1	12	3	3	7				12	1		4	5			2
OGLETHORPE	1920-66	5	1				3	1			1			2			2				
COLLEGE GA	1960-66	4	1				2	1			1			1			1				

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS		Institution of Baccalaureate
2	1					6	2				1	2	1				51	67	NORTHEASTERN	
						3					1	2					27	35	STATE COL OKLA	
7		2		3	2	5	1	3					1				26	49	NORTHERN	
4				2	2	4	1	2					1				17	32	ARIZONA UNIV	
2			1		1	4	2					2		3		3	1	10	NORTHERN BAPT	
						2	1					1		1		1		3	THEOL SEM ILL	
22	7	1	7	1	4	15	2	3	1			9					95	180	NORTHERN ILL	
9	2		5		1	8	1	2	1			4					52	90	UNIVERSITY	
10	4	1	2	1		8	3		1	2		1	1	1	1		42	83	NORTHERN	
1				1		2			1				1	1	1		13	23	MICHIGAN UNIV	
6	1	1		3		5		2	1			2					41	63	NORTHERN	
1				1		2		1				1					21	26	STATE COLL S D	
4	1		1		1									1		1	6	23	NORTHLAND	
2	1		1														1	7	COLLEGE WISC	
						2	1					1		5		5		8	NW CHRISTIAN	
						1	1							3		3		5	COLLEGE OREG	
11	2			5	3	7	2	1	1			2	1	5	3		62	114	NW MISSOURI	
6	1			4										3	3		29	51	STATE COLLEGE	
2	2					8	2	1	1		1	2	1	2	1	1	14	30	NORTHWEST	
2	2					6	2	1	1		1		1	1	1		8	20	NAZARENE C IDA	
3	2				1	13	2	1	4	5	1			1		1	5	24	NORTHWESTERN	
2	1				1	3				3				1		1	1	7	COLLEGE WISC	
						5				1		4		3		3	2	11	NORTHWESTERN	
						4						4		1		1	2	8	COLLEGE MINN	
2			1			7	3	1	1			1	1	4	1	3	30	63	NORTHWESTERN	
1			1			1						1					14	31	STATE COL OKLA	
6			3	1		14	2	7				4	1	8	8		63	119	NORTHWESTERN	
						4		2				1	1	6	6		35	58	ST COLL OF LA	
325	154	20	28	54	54	335	65	86	39	8	22	60	50	67	27	28	176	1528	NORTHWESTERN	
107	56	6	6	14	18	108	16	31	14		6	20	19	28	13	10	60	511	UNIVERSITY ILL	
1	1					3	2										3	23	NORWICH	
1	1					1	1										3	11	UNIVERSITY VT	
																		1	NOTRE DAME	
																		1	COLLEGE MD	
						2	1	1									4	11	NOTRE DAME	
						2	1	1									3	6	COLLEGE OHIO	
1			1															4	NOTRE DAME,	
																		2	COLL OF, CAL	
2	2					6	3	2	1								1	11	NOTRE DAME COLL	
1	1					1		1									1	3	OF STATEN IS	
5			2	3		8	4	1			2						2	24	NOTRE DAME OF	
1				1		3	3											6	MD, COLL OF	
2			1		1													2	NOTRE DAME	
2			1		1													2	SEMINARY LA	
86	21	2	13	23	25	134	30	57	8	7	25	4	3	31	21	7	49	724	NOTRE DAME,	
42	12	2	5	15	7	66	15	32	3	1	12	1	2	17	15	1	20	339	UNIV OF, IND	
						1				1							3	4	NYACK MISSION-	
						1				1							2	3	ARY COLL N Y	
2				1	1	7	4	2					1	1		1	15	35	OAKLAND CITY	
1				1		2	1						1				1	6	COLLEGE IND	
																		3	OAKWOOD	
																		2	COLLEGE ALA	
295	110	9	43	70	52	371	80	91	59	13	33	13	76	32	12	11	153	1478	OBERLIN COLLEGE	
103	38	3	13	23	22	120	30	22	12	4	8	5	39	6	1	2	39	447	OHIO	
						1				1								1	OBLATE COLL OF	
						1				1								1	SOUTHWEST TEX	
56	31	2	1	9	13	61	25	6	5		11	6	6	14	2	12	64	285	OCCIDENTAL	
28	15	2	1	4	6	25	7	4	3		4	4	2	3	2	1	22	122	COLLEGE CAL	
4	2	1			1	4	2		1		1			2		2	6	23	OGLETHORPE	
2	1				1	1	1							1		1	4	13	COLLEGE GA	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
OHIO NORTHERN	1920-66	33	1	1			22		1	2	7		1	20	1	9	3	2		5
UNIVERSITY	1960-66	8					5				3		1	9		7	2			
OHIO STATE	1920-66	730	39	122	2	4	292	33	31	39	238	57	37	632	170	73	88	144	5	152
UNIVERSITY	1960-66	198	15	37	2	4	47	13	12	15	84	13	19	161	51	20	26	34	4	26
OHIO	1920-66	128	12	17	2	2	73	10	7	6	20	1	6	72	12	4	9	22	2	23
UNIVERSITY	1960-66	39	1	7	2	1	16	6	4	2	13	1	3	25	3	1	4	10	2	5
OHIO WESLEYAN	1920-66	115	6	23	1	1	62	14	8	15	9	3	1	57	3	2	13	11	1	27
UNIVERSITY	1960-66	31	2	6	1	1	13	6	5	6	4	1	1	21		1	7	6	1	6
OKLAHOMA	1920-66	19	3	7	1	1	8	1	4		1	1		13		1	4	3		5
BAPTIST UNIV	1960-66	9	1	2	1		5	1	4		1	1		8		1	2	2		3
OKLAHOMA CITY	1920-66	8	1	2			5	1	1					5			1			4
UNIVERSITY	1960-66	2	1	1																
OKLAHOMA COLL	1920-66	1					1							2		1		1		
FOR WOMEN	1960-66																			
OKLAHOMA ST U	1920-66	215	28	27	1	8	46	11	9	10	104	21	20	350	192	26	25	62	2	43
OF AG & AP SCI	1960-66	144	20	16	1	8	18	9	5	8	82	15	12	164	92	9	13	30	2	18
OKLAHOMA,	1920-66	335	36	58	2	8	86	17	16	45	110	28	28	119	2	20	27	26		44
UNIVERSITY OF	1960-66	155	17	26	2	7	23	9	6	18	71	18	17	43	1	5	13	9		15
OLD DOMINION	1920-66	2					2	1	1					1			1			
COLLEGE VA	1960-66	2					2	1	1					1			1			
OLIVET	1920-66	20	2	6			11			1				9			1	4		4
COLLEGE MICH	1960-66	1					1							1						1
OLIVET NAZARENE	1920-66	5	1				4	2												
COLLEGE ILL	1960-66	3					3	2												
MUNICIPAL UNIV	1920-66	30	4	2			22	5	7	1	1			16	1	3	5	5		2
OF OMAHA	1960-66	9	1	1			7	1	4					10		1	3	4		2
ONEONTA,	1920-66																			
SUNY COLL AT	1960-66																			
OREGON COLLEGE	1920-66	1	1											1		1				
OF EDUCATION	1960-66	1	1																	
OREGON STATE	1920-66	289	22	29	1	3	124	29	24	22	92	27	8	307	114	21	48	57	6	61
UNIV OREG	1960-66	124	12	10	1	3	35	10	13	9	58	17	2	117	49	7	18	25	6	12
OREGON,	1920-66	124	24	21	2	2	51	8	13	25	3			63	1	6	22	14	1	19
UNIVERSITY OF	1960-66	45	12	8	2	2	20	5	11	3	2			19		2	9	7		1
OSTEOP MED &	1920-66																			
SURG COLL IOWA	1960-66																			
OSWEGO,	1920-66																			
SUNY COLL AT	1960-66																			
OTTAWA	1920-66	20	4	4	1		12							15	4	2	2			7
UNIVERSITY KAN	1960-66	5	1	2	1		2							5	2		1			2
OTTERBEIN	1920-66	30	5	3			20	2	1	1	1			25		2	8	6	1	8
COLLEGE OHIO	1960-66	8	4	1			3	1	1					4			2			2
OUACHITA BAPT	1920-66	12	1				11	4	2					10	2	1	1	1		5
UNIVERSITY ARK	1960-66	6	1				5	3	1					5	1	1		1		2
OUR LADY OF	1920-66													1						1
CINCINNATI COL	1960-66													1						1
OUR LADY ELMS	1920-66	1					1	1						2			1			1
COLL OF, MASS	1960-66	1					1	1						2			1			1
OUR LADY HOLY	1920-66																			
CROSS COLL LA	1960-66																			
OUR LADY OF THE	1920-66	3	1				2		1					2				1		1
LAKE COLL TEX	1960-66	1					1		1					1				1		
OWOSSO	1920-66																			
COLLEGE MICH	1960-66																			
OZARKS, COLLEGE	1920-66	2					2							8		1		4		3
OF THE, ARK	1960-66													3				2		1
PACE COLLEGE	1920-66																			
N Y	1960-66																			
PACIF CHRISTIAN	1920-66																			
COLLEGE CAL	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS		Institution of Baccalaureate
10	2		2	3	3	9	2	3	1			2	1	3	1	1	34	109	OHIO NORTHERN	
2					2	4	1					2	1	1	1		5	29	UNIVERSITY	
450	195	8	54	144	37	249	66	50	56	8	14	27	26	75	48	5	402	2538	OHIO STATE	
135	48	2	17	53	11	69	17	9	9	2	4	17	11	42	32		142	747	UNIVERSITY	
113	65	3	7	21	7	61	16	10	9	3	3	17	3	15	9	3	136	525	OHIO	
37	19	2	1	8	4	27	5	5	3	1	1	10	2	9	5	2	53	190	UNIVERSITY	
122	38	2	17	37	27	100	21	27	10	3	16	15	5	37	9	22	82	513	OHIO WESLEYAN	
45	12	1	7	12	12	23	5	5	2	1	3	4	3	13	4	9	16	149	UNIVERSITY	
9	3	1			5	16	4	5	1		1	5		1	1		18	76	OKLAHOMA	
8	3				5	9	1	4	1			3		1	1		11	46	BAPTIST UNIV	
5			2	2	1	11	3	1	1		3	1	2	7		6	18	54	OKLAHOMA CITY	
2			1		1	4	1					1	2	2		1	12	22	UNIVERSITY	
						6	2	2				2		1			18	28	OKLAHOMA COLL	
						1						1		1			10	12	FOR WOMEN	
91	25		9	52	5	30	6	11	1		1	6	5	16	10	2	149	851	OKLAHOMA ST U	
41	9		5	23	4	14	3	3			1	3	4	9	5	1	72	444	OF AG & AP SCI	
154	64	7	12	35	28	145	42	58	17	7	2	8	11	35	18	6	135	923	OKLAHOMA,	
63	26	4	5	17	9	60	17	26	6	3	1	3	4	19	10	5	46	386	UNIVERSITY OF	
						3	3											6	OLD DOMINION	
						3	3											6	COLLEGE VA	
9	4	1		1	1	8	3	1	1		1	1					8	54	OLIVET	
1						4	1	1			1						1	8	COLLEGE MICH	
3	3					7	2	2			2	1		5	1	4	9	29	OLIVET NAZARENE	
1	1					3	2	1						1	1		7	15	COLLEGE ILL	
23	15		3	1	4	24	7	8	2			4	3	3	3		41	137	MUNICIPAL UNIV	
9	3		3		3	18	3	7	2			4	2	3	3		23	72	OF OMAHA	
						1	1							1			20	22	ONEONTA,	
						1	1							1			15	17	SUNY COLL AT	
														1		1	15	18	OREGON COLLEGE	
																	12	13	OF EDUCATION	
47	9		2	29	2	16	2	4	1		2	7		17	10		88	764	OREGON STATE	
20	4			11	1	8	2	1	1		1	3		11	7		34	314	UNIV OREG	
123	43	9	17	33	17	122	47	37	22	2	5	5	4	24	11	4	169	625	OREGON,	
47	10	7	10	11	7	42	18	10	6	2	2	3	1	11	9	1	63	227	UNIVERSITY OF	
																	1	1	OSTEOP MED &	
																			SURG COLL IOWA	
2	2					8	6	1			1						48	58	OSWEGO,	
						7	5	1			1						22	29	SUNY COLL AT	
6	1		3	2		9	2	1			1	5		7	1	6	17	74	OTTAWA	
3			2	1		3		1				2		3		3	6	25	UNIVERSITY KAN	
15	6		2	5	2	21	6	2	2	1	1	7	2	9	1	7	31	131	OTTERBEIN	
3	2			1		6	1					5		3		2	8	32	COLLEGE OHIO	
4			2	1	1	15	7	4			1	3		4	2	2	23	68	OUACHITA BAPT	
2			1	1		7	3	1			1	2		4	2	2	10	34	UNIVERSITY ARK	
						4	1	2		1							2	7	OUR LADY OF	
						4	1	2		1								5	CINCINNATI COL	
						2			1		1						1	6	OUR LADY ELMS	
																	1	4	COLL OF, MASS	
																	1	1	OUR LADY HOLY	
																	1	1	CROSS COLL LA	
2	1		1			9	2	3		1	1	2		3		1	6	25	OUR LADY OF THE	
1	1					2					1	1		3		1	2	10	LAKE COLL TEX	
4	4																	4	OWOSSO	
4	4																	4	COLLEGE MICH	
3	1				2	6	2	2			1	1					9	28	OZARKS, COLLEGE	
1	1					2	1				1						5	11	OF THE, ARK	
2				1	1	2		1			1			1	1		1	6	PACE COLLEGE	
1					1	2		1			1			1	1		1	5	N Y	
																	1	1	PACIF CHRISTIAN	
																	1	1	COLLEGE CAL	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
PACIFIC, UNIV OF THE, CAL	1920-66	18					17	2	6		1			9	1	1		2		5
	1960-66	8					7		5		1			7	1	1		2		3
PACIFIC LUTHER UNIV WASH	1920-66	14	4	4	2		6	3	1					11	1	2	3	2		3
	1960-66	9	4	2	1		3	1	1					9	1	1	3	2		2
PACIFIC UNION COLLEGE CAL	1920-66	16	3	4			6	3		2	1		1	15		5	3	1		6
	1960-66	5	1	1			1	1		2				7		2	3	1		1
PACIFIC UNIV OREG	1920-66	13	3				8		2		2			4		1		3		
	1960-66	3					2		2		1			1		1				
PAINE COLLEGE GA	1920-66	1								1				3			2	1		
	1960-66	1								1				2			2			
PAN AMERICAN COLLEGE TEX	1920-66													1			1			
	1960-66													1			1			
PANHANDLE AGR & MECH COLL OKLA	1920-66	5		1			4	1						6	2		1	3		
	1960-66	2		1			1	1						5	2		1	2		
PARK COLLEGE MO	1920-66	55	6	24	1		23	5	1	1	1		1	21	2	1	5	6		7
	1960-66	12		1	1		10	4	1		1		1	6	1		1	3		1
PARKS COLL OF AERON TECH ILL	1920-66	6	1	1						1	3		1							
	1960-66	6	1	1						1	3		1							
PARSONS COLLEGE IOWA	1920-66	7	2	1			4							8	1		2	1		4
	1960-66	2	2											3			2	1		
PASADENA COLLEGE CAL	1920-66	4		2		1	2							2			1		1	
	1960-66	4		2		1	2							2			1		1	
PATERSON STATE COLLEGE N J	1920-66																			
	1960-66																			
PEABODY INST OF BALTIMORE MD	1920-66																			
	1960-66																			
PEMBROKE STATE COLLEGE N C	1920-66																			
	1960-66																			
P M C COLLEGES PENNA	1920-66	5					5	1						1				1		
	1960-66	1					1	1												
PENNA COLLEGE OF OPTOMETRY	1920-66													3		1	1			1
	1960-66													2		1				1
PENNSYLVANIA STATE UNIV	1920-66	720	38	88	8	12	300	43	41	57	237	67	19	561	215	31	132	96	5	82
	1960-66	281	23	44	5	9	69	24	26	25	120	29	17	173	74	7	41	32	3	16
PENNSYLVANIA, UNIVERSITY OF	1920-66	510	59	94	9	15	238	45	29	6	113	14	43	215	5	53	55	44		58
	1960-66	171	21	32	8	13	52	30	13	1	65	5	29	58		13	20	18		7
PEPPERDINE COLLEGE CAL	1920-66	2	1				1	1						2	1			1		
	1960-66	1					1	1						1				1		
PERU STATE COLLEGE NEBR	1920-66	9	3	1			4		1		1			18	2		2	1		13
	1960-66	1	1											2			2			
PFEIFFER COLLEGE N C	1920-66													1						1
	1960-66													1						1
PHILA COLL OF OSTEOPATHY PA	1920-66													1		1				
	1960-66													1		1				
PHILA COLLEGE OF PHARM & SCI	1920-66	59		1			57	11	5		1			115	2	67	11	27		8
	1960-66	16					16	6	2					48		37	5	4		2
PHILADELPHIA COLLEGE OF ART	1920-66																			
	1960-66																			
PHILADELPHIA MUS ACADEMY	1920-66	1					1													
	1960-66																			
PHILA COLLEGE TEXTILES & SCI	1920-66	4					4	3												
	1960-66	3					3	3												
PHILANDER SMITH COLLEGE ARK	1920-66													1	1					
	1960-66																			
PHILLIPS UNIV OKLA	1920-66	17	3	8		1	2			2	2			15		1	3	4		7
	1960-66	6	2	2		1				1	1			8			3	2		3
PIEDMONT COLLEGE GA	1920-66													4			1	2		1
	1960-66													2			1	1		
PITTSBURGH THEO SEMINARY PA	1920-66																			
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
25	7	1	3	3	9	18	6	3			1	7	1	4		4	46	120	PACIFIC, UNIV
11	4	1		1	4	5	1					4		3		3	26	60	OF THE, CAL
5	5					14	6	3			1	4					8	52	PACIFIC LUTHER
3	3					12	6	2			1	3					6	39	UNIV WASH
4	1				2	24	9	4	3	1		5	1	3	1	2	24	86	PACIFIC UNION
						7	3	1	1			2		1	1		13	33	COLLEGE CAL
6	1			3	2	6	1		1			4					24	53	PACIFIC
1					1	1						1					7	13	UNIV OREG
5	1		4														4	13	PAINE
1			1														2	6	COLLEGE GA
						1		1									2	4	PAN AMERICAN
						1		1									2	4	COLLEGE TEX
1				1		2	1					1		1	1		10	25	PANHANDLE AGR &
1				1		1	1										7	16	MECH COLL OKLA
27	10		6	6	4	40	9	13	9		2	5	2	13		12	37	193	PARK
6	1		4		1	10	2	3	2		1	1	1	1			11	46	COLLEGE MO
1				1		1	1							2	2			10	PARKS COLL OF
1				1										2	2			9	AERON TECH ILL
10	4		2	3	1	7	3	1				3		2		2	19	53	PARSONS
1				1		4	2	1				1					6	16	COLLEGE IOWA
10	7		3			5	1				2	2		8		8	8	37	PASADENA
8	6		2			1					1			1		1	6	22	COLLEGE CAL
1	1					1		1									11	13	PATERSON STATE
																	6	6	COLLEGE N J
						6							6				3	9	PEABODY INST OF
						2							2				2	4	BALTIMORE MD
																	1	1	PEMBROKE STATE
																	1	1	COLLEGE N C
																	1	7	P M C COLLEGES
																	1	2	PENNA
																		3	PENNA COLLEGE
																		2	OF OPTOMETRY
284	130	3	41	81	20	105	23	33	16		10	16	6	31	10	6	266	1967	PENNSYLVANIA
108	49	3	18	25	8	37	8	10	6		4	8	1	15	8	2	107	721	STATE UNIV
362	119	17	29	136	43	365	67	125	79	29	37	7	16	40	16	16	177	1669	PENNSYLVANIA,
89	35	4	3	28	14	88	22	24	22	5	4	4	6	11	4	5	33	450	UNIVERSITY OF
11	7		1	2	1	13	4	2	1			5	1	6		5	28	62	PEPPERDINE
9	6		1	2		6	2		1			2	1	2		1	19	38	COLLEGE CAL
6	2			1	2	10	7		1			2					57	100	PERU STATE
						2	2										26	31	COLLEGE NEBR
														1	1		1	3	PFEIFFER
														1	1		1	3	COLLEGE N C
																		1	PHILA COLL OF
																		1	OSTEOPATHY PA
1	1													2	1	1	1	178	PHILA COLLEGE
1	1													2	1	1		67	OF PHARM & SCI
																	1	1	PHILADELPHIA
																	1	1	COLLEGE OF ART
						2							2				1	4	PHILADELPHIA
						2							2					2	MUS ACADEMY
																		4	PHILA COLLEGE
																		3	TEXTILES & SCI
3	1		1		1									1		1	2	7	PHILANDER SMITH
2	1				1									1		1	1	4	COLLEGE ARK
15	7	1	4	1	2	15	5	1	2		3	1	3	12	1	10	33	107	PHILLIPS
10	4	1	3	1	1	9	3	1	1		1	1	2	7	1	5	20	60	UNIV OKLA
2	1			1		3	1	1	1					1		1	8	18	PIEDMONT
						1			1								2	5	COLLEGE GA
						1	1							1		1		2	PITTSBURGH THEO
																			SEMINARY PA

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
PITTSBURGH, UNIVERSITY OF	1920-66	287	34	38	2	4	136	18	15	11	68	18	8	208	3	41	46	46	3	69
	1960-66	85	12	14	2	3	23	7	5	5	31	9	7	48		17	10	12	3	6
PLATTSBURG, SUNY COLL AT	1920-66																			
	1960-66																			
PLYMOUTH ST COLL N H	1920-66																			
	1960-66																			
POLYTECH INST OF BROOKLYN	1920-66	454	29	63	3	13	169	36	25	1	192	58	40	12		1	10	1		
	1960-66	217	28	36	3	12	50	27	15	1	102	22	21	3		1	2			
POMONA COLLEGE CAL	1920-66	182	19	52	4	4	63	12	5	35	13		2	75	7	3	22	10		33
	1960-66	63	9	20	3	4	13	6	3	16	5		2	27	2	1	10	4		10
PONTIF COLL JO-SEPHINUM OHIO	1920-66													1						1
	1960-66																			
PORTLAND STATE COLLEGE OREG	1920-66	5	1				4		4					4						4
	1960-66	5	1				4		4					4						4
PORTLAND, UNIV OF, OREG	1920-66	30		5			22	8	2		3		1	12		1	8	1		2
	1960-66	16		3			10	6	2		3		1	5		1	4			
POTSDAM, SUNY COLL AT	1920-66													1	1					
	1960-66																			
PRAIRIE VIEW A & M COLL TEX	1920-66	3	2								1			16	4	1	4	3		4
	1960-66	3	2								1			10	2		3	2		3
PRATT INSTITUTE N Y	1920-66	22	2				1		1		19	8	2	2			2			
	1960-66	12	1								11	4	1	1			1			
PRESBYTERIAN COLLEGE S C	1920-66	12	1	4	1		7	4						2						2
	1960-66	3		1	1		2	1												
PRINCETON THEOL SEMINARY	1920-66																			
	1960-66																			
PRINCETON UNIVERSITY	1920-66	633	61	159	23	17	201	24	27	82	130	41	25	99	1	17	36	13	3	29
	1960-66	258	31	69	20	12	42	13	16	28	88	27	21	42		5	21	7	1	8
PRINCIPIA COLLEGE ILL	1920-66	16	1	6		1	4		1	3	2	1	1	8	1		1			6
	1960-66	10	1	3		1	3		1	2	1	1		2			1			1
PROVIDENCE COLLEGE R I	1920-66	57	3	10	1	1	43	11	14		1			30		5	10	11		4
	1960-66	33		5	1	1	28	11	11					14		1	7	4		2
PUERTO RICO, UNIVERSITY OF	1920-66	43	6	6			17	3	1	1	13	3	1	102	32	12	17	21		20
	1960-66	16	1	1			6	3	1	1	7	1	1	41	18	2	11	3		7
PUGET SOUND, UNIV OF, WASH	1920-66	35	4	9			16	4	3	4	2			13		1	5		1	6
	1960-66	10		1			6	3	3	2	1			5		1	2			2
PURDUE UNIVERSITY	1920-66	875	43	97	10	13	215	35	31	3	517	94	91	455	164	73	64	88	8	58
	1960-66	390	21	44	8	7	65	22	14	1	259	41	59	179	68	23	34	31	7	16
QUEENS COLLEGE N Y	1920-66	176	22	37	3	7	100	33	12	5	12	2	2	57		4	23	19		11
	1960-66	84	10	17	3	6	43	21	8	2	12	2	2	35		2	14	14		5
QUEENS COLLEGE N CAR	1920-66													1			1			
	1960-66																			
QUINCY COLLEGE ILL	1920-66	1					1							5			1		1	3
	1960-66													5			1		1	3
RADCLIFFE COLLEGE MASS	1920-66	42	10	8			22	1	3	2				42	1	3	18	6	1	13
	1960-66	12	4	3			4	1	3	1				14		1	8	5		
RADFORD COLLEGE VA	1920-66	2	1				1	1						3	1			1		1
	1960-66	2	1				1	1												
RANDOLPH MACON COLLEGE VA	1920-66	50	7	12			31	9	3					9			5	1		3
	1960-66	11	3	1			7	4	3					4			4			
RANDOLPH MACON WOMANS COLL VA	1920-66	16	5	1		1	10	2	1					14			2	5		7
	1960-66	1		1		1								4				2		2
REDLANDS, UNIV OF, CAL	1920-66	39	3	11		1	18	4	3	6	1			17			6	5		6
	1960-66	15	3	3		1	7	2	3	2				7			3	2		2
REED COLLEGE OREG	1920-66	223	38	84	7	12	94	22	10	2	5	1		72	2	3	34	12	2	19
	1960-66	84	20	37	7	8	23	12	7	1	3			29	1	1	13	7	2	5
REGIS COLLEGE MASS	1920-66	5	2				3	2						2			1	1		
	1960-66	3					3	2						1			1			
REGIS COLLEGE COLO	1920-66	27	3				24	7	5					6			3	3		
	1960-66	13	3				10	4	4					2				2		

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
211	108	1	29	40	25	168	41	52	33	11	6	21	2	25	13	8	235	1134	PITTSBURGH,
57	32	1	5	11	4	45	9	18	6	1	2	8	1	7	4	2	64	306	UNIVERSITY OF
2	1		1											1			17	20	PLATTSBURG,
1			1											1			9	11	SUNY COLL AT
1	1																11	12	PLYMOUTH
																	9	9	ST COLL N H
4	3		1											2	1		8	480	POLYTECH INST
														1	1		1	222	OF BROOKLYN
104	34	6	12	23	25	87	28	19	13	1	16	4	4	14	3	11	62	524	POMONA
41	16	2	5	8	7	34	11	9	5		4	2	3	4		4	14	183	COLLEGE CAL
3	2		1			1				1				2		1	3	10	PONTIF COLL JO-
2	1		1			1				1				2		1	2	7	SEPHINUM OHIO
7	3		3		1									1		1	4	21	PORTLAND STATE
7	3		3		1									1		1	4	21	COLLEGE OREG
10	7			2	1	5		2	3					2	1		12	71	PORTLAND, UNIV
3	3					4		1	3					1	1		9	38	OF, OREG
1	1					7	1	1					5	1			20	30	POTSDAM,
1	1					3	1						2	1			9	14	SUNY COLL AT
5	1	1	2		1	1							1				16	41	PRAIRIE VIEW
2	1				1												5	20	A & M COLL TEX
						1							1	1			8	34	PRATT
						1							1	1			2	17	INSTITUTE N Y
3	3					11	3	5	2					6		5	6	40	PRESBYTERIAN
						4		2	1					3		3	2	12	COLLEGE S C
														1		1		1	PRINCETON THEOL
														1		1		1	SEMINARY
251	77	15	20	67	61	512	123	157	91	50	45	4	37	58	16	29	46	1599	PRINCETON
88	29	5	7	19	22	146	28	58	23	10	10	2	14	28	9	18	9	571	UNIVERSITY
8				3	4	11	1	5	2			3		3	3		7	53	PRINCIPIA
4					3	8	1	5				2		1	1		5	30	COLLEGE ILL
11	4		3	3	1	27	6	8	3	1	7	1	1	5		4	15	145	PROVIDENCE
4			1	2	1	12	4	3	2	1	1		1	1			8	72	COLLEGE R I
39	11	2	8	12	3	20	4		11		3	1	1	6	2		57	267	PUERTO RICO,
16	5		1	8	1	5			4		1			2			26	106	UNIVERSITY OF
21	10		2	4	4	25	5	7	2		4	5	2	9	2	6	16	119	PUGET SOUND,
8	3		1	3		10	1	4	1		1	3		3	1	2	13	49	UNIV OF, WASH
211	95	3	10	96	6	30	8	8	4		1	9		28	22		103	1702	PURDUE
90	33	1	6	45	4	14	1	3	4		1	5		19	16		58	750	UNIVERSITY
168	122	9	6	21	7	116	20	34	25	3	5	12	17	5	3	2	45	567	QUEENS
101	78	5	2	9	4	69	12	20	14	2	1	8	12	4	2	2	30	323	COLLEGE N Y
6	4		1		1									1		1	1	9	QUEENS COLLEGE
4	3				1												1	5	N CAR
3	1		2			10	4	1		1	4			2	1	1	9	30	QUINCY
2	1		1			5	1			1	3			2	1	1	3	17	COLLEGE ILL
102	39	11	14	19	18	124	27	30	39	6	8		12	4	1	1	29	343	RADCLIFFE
35	18	5	4	4	3	42	7	10	14	4			6	1		1	12	116	COLLEGE MASS
1	1					2	1	1									6	14	RADFORD
1	1					1		1									2	6	COLLEGE VA
11	2			3	5	33	10	14	7	1				8		6	12	123	RANDOLPH MACON
4	1			1	2	10	3	5	2					1		1	3	33	COLLEGE VA
13	8		3			28	6	10	7	5							8	79	RANDOLPH MACON
2			1			4		2	2								1	12	WOMANS COLL VA
58	31	1	6	8	12	49	9	14	1		2	17	4	21	2	18	62	246	REDLANDS,
26	17		2	3	4	25	4	9	1		1	8	1	10	2	7	25	108	UNIV OF, CAL
131	40	10	16	29	34	66	22	20	7	4	10	1	2	4		1	26	522	REED COLLEGE
47	11	4	10	4	16	17	4	5		1	6	1		2		1	4	183	OREG
4	3		1			12	2	5	4				1				4	27	REGIS COLLEGE
2	2					8		4	3				1				2	16	MASS
5	4			1		11	3	5	1		1	1		1			9	59	REGIS COLLEGE
2	2					8	3	3	1		1						7	32	COLO

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
RENSSELAER POLY INST N Y	1920-66	663	35	134	10	24	152	27	29	5	337	68	44	30		4	17	7		2
	1960-66	323	24	64	9	16	52	19	18	4	179	36	29	11		1	7	2		1
RHODE ISLAND COLLEGE	1920-66	1					1	1						4	1		1		1	1
	1960-66													2	1		1			
RHODE ISLAND SCH OF DESIGN	1920-66	4					4	4						1			1			
	1960-66	3					3	3						1			1			
RHODE ISLAND, UNIVERSITY OF	1920-66	90	3	8	1		51	12	3	2	26	6	8	145	44	18	16	30	2	35
	1960-66	51		6	1		24	11	3	2	19	4	5	54	19	6	9	11	1	8
RICE UNIVERSITY TEX	1920-66	389	46	120	10	13	108	23	19	24	91	41	10	53	1	3	22	10		17
	1960-66	185	23	55	8	13	30	10	12	21	56	23	9	25	1		13	6		5
RICHMOND PROF INSTITUTE VA	1920-66													3			1	1		1
	1960-66													3			1	1		1
RICHMOND, UNIV OF, VA	1920-66	80	7	25		5	43	8	7	1	4		1	36		2	5	8	1	20
	1960-66	24		11		4	11	5	5	1	1			12			1	4	1	6
RICKER COLLEGE ME	1920-66																			
	1960-66																			
RIDER COLLEGE N J	1920-66																			
	1960-66																			
RIO GRANDE COLLEGE OHIO	1920-66																			
	1960-66																			
RIPON COLLEGE WISC	1920-66	53	2	27	3	1	17	7	2		7	1	1	19	2	1	5	4	1	6
	1960-66	16	1	6	3	1	4	4			5	1	1	7			1	3	1	2
RIVIER COLLEGE N H	1920-66													2			1			1
	1960-66													1						1
ROANOKE COLLEGE VA	1920-66	22	3	7		2	11	5	1		1			12			5	2		5
	1960-66	9	1	3		1	5	2	1					6			2	1		3
ROBERTS WESLEYAN COLL N Y	1920-66	1					1		1											
	1960-66	1					1		1											
ROCHESTER INST OF TECHNOL N Y	1920-66	16					13	5	1		3		1	1			1			
	1960-66	16					13	5	1		3		1	1			1			
ROCHESTER, UNIVERSITY OF	1920-66	356	44	86	8	11	138	36	24	28	60	19	1	113		12	47	28		26
	1960-66	139	18	40	8	10	41	19	15	7	33	11		31		5	8	16		2
ROCKFORD COLLEGE ILL	1920-66	3	1				2							9			3			6
	1960-66	2					2							2			1			1
ROCKHURST COLLEGE MO	1920-66	36	8	12	3	3	12	2	3		4	2	1	4			2	2		
	1960-66	20	5	6	2	2	6	2	3		3	2	1	1			1			
ROCKMONT COLLEGE COLO	1920-66																			
	1960-66																			
ROCKY MOUNTAIN COLLEGE MONT	1920-66	4	3	1										1						1
	1960-66	1	1																	
ROLLINS COLLEGE FLA	1920-66	16	1	2			13	2						17	2	3	6	1		5
	1960-66	4		2			2	1						5	1		3			1
ROOSEVELT UNIVERSITY ILL	1920-66	30	5	5		1	20	4	3					44		8	14	16		6
	1960-66	12	2	2		1	8	4	2					28		6	8	11		3
ROSARY COLLEGE ILL	1920-66	10	1				9	2	1					2				2		
	1960-66	4					4	1						1				1		
ROSE POLYTECH INSTITUTE IND	1920-66	49	2	5		1	4		1		38	12	8	1			1			
	1960-66	24	1	3		1	1				19	3	6							
ROSEMONT COLLEGE PA	1920-66	6					6	1	1					1				1		
	1960-66	2					2		1					1				1		
RUSSELL SAGE COLLEGE N Y	1920-66	1					1							3			2	1		
	1960-66													1				1		
RUST COLLEGE MISS	1920-66	1	1																	
	1960-66	1	1																	
RUTGERS, THE STATE U, N J	1920-66	407	23	54	3	6	226	58	33	32	72	1	7	444	123	44	90	110	6	71
	1960-66	166	12	17	3	5	82	36	22	20	35		4	147	34	14	31	49	5	14
SACRAMENTO STATE COLLEGE	1920-66	9	4				4	1	1		1			7		1	1	3		2
	1960-66	8	4				3	1	1		1			7		1	1	3		2
SACRED HEART COLLEGE KAN	1920-66																			
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
19	10		1	5		4	2						1	9	6	2	10	735	RENSSELAER
16	9		1	3		4	2						1	6	5		4	364	POLY INST N Y
5	2		1			9	6	3									19	38	RHODE ISLAND
3	2					5	3	2									10	20	COLLEGE
						2							2				3	10	RHODE ISLAND
						1							1				2	7	SCH OF DESIGN
16	5	1	1	3	5	11	2	6	1			1		8	6		23	293	RHODE ISLAND,
9	1		1	1	5	5		3				1		4	3		10	133	UNIVERSITY OF
29	7	1	2	13	4	65	23	21	13		7	1		12	5	5	24	572	RICE
15	5		2	6	2	33	11	10	9		3			7	2	4	6	271	UNIVERSITY TEX
														1	1		3	7	RICHMOND PROF
														1	1		3	7	INSTITUTE VA
69	31	1	10	20	7	62	23	19	9	5	3	2		12	4	6	25	284	RICHMOND,
14	9		1	3	1	18	5	6	3	2		2		4	1	3	10	82	UNIV OF, VA
																	1	1	RICKER
																	1	1	COLLEGE ME
1					1	1	1							2	2		12	16	RIDER
1					1									1	1		7	9	COLLEGE N J
2	2					1						1		1	1		8	12	RIO GRANDE
1	1																3	4	COLLEGE OHIO
13	6		2	4	1	12	5	2	2	1	2			1	1		18	116	RIPON
5	3			2		1		1						1	1		6	36	COLLEGE WISC
1	1					2		1			1						1	6	RIVIER
1	1					1					1						1	4	COLLEGE N H
3				1	2	22	6	8	3	2	1	1		4		2	9	72	ROANOKE
1				1		6	3	1	1	1							4	26	COLLEGE VA
1				1		2	1	1									2	6	ROBERTS WES-
						2	1	1									2	5	LEYAN COLL N Y
																		17	ROCHESTER INST
																		17	OF TECHNOL N Y
108	75	1	10	12	10	190	41	30	28	1	14	3	70	20	6	12	75	862	ROCHESTER,
32	26		2	1	3	68	9	10	8		8	2	31	5	2	2	22	297	UNIVERSITY OF
5	1		2	2		17	7	4	2	2		2		2			10	46	ROCKFORD
3			1	2		4	1	2	1								4	15	COLLEGE ILL
6	1			2	2	15	4	7	1	1		2		2	1	1	2	65	ROCKHURST
5	1			2	1	9	3	3	1	1		1		2	1	1	2	39	COLLEGE MO
1	1																1	2	ROCKMONT
1	1																1	2	COLLEGE COLO
						4	1		2			1		1		1	9	19	ROCKY MOUNTAIN
						1			1									2	COLLEGE MONT
13	5		4	2	2	20	5	7	4		3		1	4	3		7	77	ROLLINS
2	1			1		8	3	2	1		1		1	3	2		5	27	COLLEGE FLA
82	57	2	7	7	8	40	10	8	5		3	2	12	3	1	2	19	218	ROOSEVELT
42	28	1	4	3	5	20	4	4	4		2	1	5	2	1	1	14	118	UNIVERSITY ILL
3	1			1	1	17	6	7	2	1			1	1			5	38	ROSARY
1					1	8	3	3	1				1				2	16	COLLEGE ILL
																		50	ROSE POLYTECH
																		24	INSTITUTE IND
1	1					11	2	2	3	3		1		1		1	2	22	ROSEMONT
1	1					5	1		1	2		1					1	10	COLLEGE PA
3	1		2			5		2	2		1						11	23	RUSSELL SAGE
1	1					3		1	1		1						4	9	COLLEGE N Y
1					1												2	4	RUST COLLEGE
																	2	3	MISS
197	98		14	47	34	129	48	33	29	2	6	8	2	25	10	5	140	1342	RUTGERS, THE
91	51		4	24	11	59	23	17	11		3	4	1	10	6	1	46	519	STATE U, N J
7	1		2	2	2	7	3	2				2		2	2		18	50	SACRAMENTO
6	1		2	1	2	5	3	2						2	2		18	46	STATE COLLEGE
						3	1	1	1									3	SACRED HEART
						1			1									1	COLLEGE KAN

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																	
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
SACRED HEART, C OF THE, P R	1920-66																			
	1960-66																			
SACRED HEART DOM COLL TEX	1920-66													1						1
	1960-66													1						1
SACRED HEART SEMINARY MICH	1920-66																			
	1960-66																			
ST ALBERTS COLLEGE CAL	1920-66																			
	1960-66																			
ST AMBROSE COLLEGE IOWA	1920-66	26	4	1			21	5	5					19		1	5	3		10
	1960-66	6	2				4		4					6			2	1		3
ST ANDREWS PRESB COLL N C	1920-66													3	1			1		1
	1960-66																			
ST ANSELMS COLLEGE N H	1920-66	12					11	2	3	1				13			1	4	2	6
	1960-66	9					8	1	3	1				6				2	2	2
ST AUGUSTINES COLLEGE N C	1920-66													2				1		1
	1960-66													2				1		1
ST BASILS COLLEGE CONN	1920-66																			
	1960-66																			
ST BENEDICT, COLL OF, MINN	1920-66	2		1			1							3				1		2
	1960-66	1					1							1				1		
ST BENEDICTS COLLEGE KAN	1920-66	23	5	4		2	13	4			1	1		12	1	1	2	5		3
	1960-66	8	2	2		2	3	3			1	1		6	1	1		3		1
ST BERNARD COLLEGE ALA	1920-66													2						2
	1960-66													2						2
ST BERNARDINE SIENA COLL N Y	1920-66	18	1	3			13	6	5		1			8		2	4	1		1
	1960-66	13	1	2			9	5	3		1									
ST BERNARDS SEM & COLL N Y	1920-66																			
	1960-66																			
ST BONAVENTURE UNIVERSITY N Y	1920-66	26	2	7			17	11	2					18		1	5	6		6
	1960-66	19	1	5			13	9	2					7			2	4		1
ST CATHERINE, COLL OF, MINN	1920-66	4	2				2		1					6		2	2	1		1
	1960-66	2	1				1		1					6		2	2	1		1
ST CHARLES BORROMEO SEM PA	1920-66													1	1					
	1960-66													1	1					
ST CHARLES SEMINARY OHIO	1920-66																			
	1960-66																			
ST CLOUD STATE COLLEGE MINN	1920-66	6		3			2		1	1				14	1		3	4	1	5
	1960-66	2		1			1		1					8			2	2	1	3
ST EDWARDS UNIVERSITY TEX	1920-66	8	2	3			2	2		1				2			1			1
	1960-66	6	2	2			1	1		1				1						1
ST ELIZABETH, COLL OF, N J	1920-66	2	1				1	1						5			1			4
	1960-66													1			1			
ST FIDELIS COLL & SEMINARY PA	1920-66																			
	1960-66																			
ST FRANCIS COLLEGE ME	1920-66																			
	1960-66																			
ST FRANCIS COLLEGE N Y	1920-66	14	1				13	2	6					19			5	5		9
	1960-66	8	1				7		6					8			2	2		4
ST FRANCIS COLLEGE PA	1920-66	12		1			10	3	2		1	1		5	1	1	2			1
	1960-66	8					7	3	2		1	1		3	1	1	1			
ST FRANCIS COLLEGE IND	1920-66	1					1													
	1960-66	1					1													
ST FRANCIS COLLEGE WISC	1920-66																			
	1960-66																			
ST FRANCIS, COLL OF, ILL	1920-66	3		1			2							1						1
	1960-66	1		1										1						1
ST FRANCIS SEMINARY WISC	1920-66													3		1				2
	1960-66													1		1				
ST JOHN COLL OF CLEVELAND	1920-66													3			2	1		
	1960-66													1				1		

Doctorates by Field																				
SOCIAL SCIENCES						ARTS AND HUMANITIES								PROFESSIONAL FIELDS			EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT		HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC		BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY				
						1 1			1 1									1 1	SACRED HEART, C OF THE, P R
																		1 1	SACRED HEART DOM COLL TEX
2 2	2 2					4 1		1 1		1	2			1		1	5 3	12 6	SACRED HEART SEMINARY MICH
1 1	1 1																	1 1	ST ALBERTS COLLEGE CAL
10 5	2 2		1	2 2	4 1	23 7	6 1	8 3	3 1	2	2	2 2		2	1	1	5 2	85 26	ST AMBROSE COLLEGE IOWA
						2 1	1					1 1					6 1	11 2	ST ANDREWS PRESB COLL N C
3 2	1 1				2 1	8 5	3 2	1 1			2		1 1	1		1	3 2	40 24	ST ANSELMS COLLEGE N H
																	3 1	5 3	ST AUGUSTINES COLLEGE N C
1 1	1 1																	1 1	ST BASILS COLLEGE CONN
3 1	1	1	1 1			9 2	3 1	4 1		1	1			1		1	3 2	21 7	ST BENEDICT, COLL OF, MINN
9 5	2 1		5 3	1	1 1	17 9	4 2	6 4	3 1	1	2 1	1 1		4 2		4 2	7 5	72 35	ST BENEDICTS COLLEGE KAN
																	3 3	5 5	ST BERNARD COLLEGE ALA
4 2	2 1				2 1	5 4	3 3	1	1 1								10 7	45 26	ST BERNARDINE SIENA COLL N Y
4 1	3 1			1		9 4	3 2	2 1		1	3 1						6 3	19 8	ST BERNARDS SEM & COLL N Y
7 3	4 2		1	7 1		30 10	6 3	6 5	1	4 1	13 1			6 2	1 1	5 1	21 3	108 44	ST BONAVENTURE UNIVERSITY N Y
9 2	8 2		1			17 5	3 1	7	3 2	1	1		1 1	2			5 1	43 16	ST CATHERINE, COLL OF, MINN
1					1	5 2	1 1			1 1	3			14 2		14 2	5 4	26 9	ST CHARLES BOR- ROMEO SEM PA
2 1	1 1			1		1 1		1 1						2		2		5 2	ST CHARLES SEMINARY OHIO
7 1	4			2 1		8 3	4 1	2 1				2 1					71 33	106 47	ST CLOUD STATE COLLEGE MINN
2 2				2 2		3 1		2 1				1		2 2	2 2		2 1	19 13	ST EDWARDS UNIVERSITY TEX
9 3	5 1		4 2			17 2	5 1	3 1	3	3	2		1	1 1			11 5	45 12	ST ELIZABETH, COLL OF, N J
1 1	1 1					1					1			1 1		1 1		3 2	ST FIDELIS COLL & SEMINARY PA
						1 1	1 1											1 1	ST FRANCIS COLLEGE ME
6 4	1 1		2 1	1	2 2	15 3	6	6 2	1		2 1						9 3	63 26	ST FRANCIS COLLEGE N Y
4 3				3 2	1 1	3 1		2 1				1		2		2	5 2	31 17	ST FRANCIS COLLEGE PA
						1 1		1 1									4 3	6 5	ST FRANCIS COLLEGE IND
						3					3			1 1		1 1	2 2	6 3	ST FRANCIS COLLEGE WISC
						5 3	1 1	1 1	1		1 1		1				3 3	12 8	ST FRANCIS, COLL OF, ILL
6 1	3 1		3			6	3	1			2			6		6	3	24 2	ST FRANCIS SEMINARY WISC
2	1			1		1		1									3 1	9 2	ST JOHN COLL OF CLEVELAND

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
ST JOHN FISHER	1920-66	12		2	1		10	10						1				1		
COLL INC N Y	1960-66	11		2	1		9	9						1				1		
ST JOHNS	1920-66	24	5	4			9	1		3	3		1	8		1	3	2		2
COLLEGE MD	1960-66	7	3	2			1	1		1				1			1			
ST JOHNS	1920-66																			
COLLEGE CAL	1960-66																			
ST JOHNS	1920-66																			
SEMINARY MASS	1960-66																			
ST JOHNS	1920-66	65	6	7	1	2	51	19	3		1			52	1	20	12	11		8
UNIVERSITY N Y	1960-66	33	2	3	1	2	28	14	3					25	1	8	8	3		5
ST JOHNS	1920-66	50	4	14	1	3	31	10	8	1				16			5	7		4
UNIV MINN	1960-66	21	2	9	1	3	9	3	5	1				9			3	5		1
ST JOSEPH	1920-66	3	1				2							2		1		1		
COLLEGE CONN	1960-66	2	1				1							2		1		1		
ST JOSEPH	1920-66													1				1		
COLLEGE MD	1960-66													1				1		
ST JOSEPH,	1920-66																			
COLL OF, MASS	1960-66																			
ST JOS ON RIO	1920-66													1						1
GR, C OF, N M	1960-66													1						1
ST JOSEPHS	1920-66																			
COLLEGE ME	1960-66																			
ST JOSEPHS	1920-66	52	1	15		5	36	11	9					18		3	7	4		4
COLLEGE PA	1960-66	34	1	11		5	22	6	7					10		2	3	3		2
ST JOSEPHS	1920-66	20	3				9	4	1	8				6		1	1	3		1
COLLEGE IND	1960-66	15	2				7	3	1	6				5		1	1	3		
ST JOSEPHS COL	1920-66													2			1			1
FOR WOMEN N Y	1960-66													1			1			
ST JOSEPHS SEM	1920-66	1								1				1				1		
& COLLEGE N Y	1960-66													1				1		
ST JOSEPHS SEM	1920-66																			
OF WASH D C	1960-66																			
ST LAWRENCE	1920-66	52	5	10		2	25	9	5	10	2	1		19	2		8	4		5
UNIVERSITY N Y	1960-66	22	3	5		1	8	4	2	5	1			4	1		1	1		1
ST LOUIS COLL	1920-66	8					8							12		9	1			2
OF PHARMACY	1960-66	4					4							5		5				
ST LOUIS INST	1920-66																			
OF MUSIC MO	1960-66																			
ST LOUIS	1920-66	144	23	27	2	3	60	8	8	22	12		4	51		5	16	14		16
UNIVERSITY	1960-66	57	12	8	1	2	17	4	3	10	10		4	16		4	8	3		1
ST MARTINS	1920-66	7					6	2	1		1			1						1
COLLEGE WASH	1960-66	4					3	1	1		1			1						1
ST MARY	1920-66	5	1				4		1					2				1		1
COLLEGE KAN	1960-66													1				1		
ST MARY,	1920-66													1				1		
COLL OF, NEBR	1960-66													1				1		
ST MARY OF THE	1920-66	2	1	1										1						1
LAKE SEM ILL	1960-66																			
ST MARY OF THE	1920-66																			
PLAINS COL KAN	1960-66																			
ST MARY SPRNGS,	1920-66	1					1	1						3				1		2
COLL OF, OHIO	1960-66	1					1	1						1				1		
ST MARY OF THE	1920-66	2					2							1			1			
WOODS COLL IND	1960-66	1					1													
ST MARYS	1920-66	5					5	2	1					2				2		
COLLEGE IND	1960-66	1					1		1					2				2		
ST MARYS	1920-66	1					1													
COLLEGE MICH	1960-66																			
ST MARYS	1920-66	29	1	6		2	21	9			1			20		3	5	3		9
COLLEGE MINN	1960-66	15		5		2	9	7			1			7		1	2	1		3

Doctorates by Field																				
SOCIAL SCIENCES						ARTS AND HUMANITIES							PROFESSIONAL FIELDS					TOTAL ALL FIELDS	Institution of Baccalaureate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION					
1	1				1		1							1	16	ST JOHN FISHER
1	1				1		1							1	15	COLL INC N Y
12	4	2	1	5	21	3	3	4	3	6		3	1	1	6	74	ST JOHNS
4	1			3	8	1	1	2	2	1		1	1		2	23	COLLEGE MD
1			1		2		1			1		2		2	1	6	ST JOHNS
1			1		2		1			1		2		2		5	COLLEGE CAL
1				1	5	1	1	1		2		3		3	5	14	ST JOHNS
					1					1		1		1	5	7	SEMINARY MASS
37	18	7	4	7	96	33	29	9	2	18	2	20	3	3	88	358	ST JOHNS
16	9	4	1	1	33	11	11	2		8	1	7	1	1	43	157	UNIVERSITY N Y
18	5	2	4	5	25	10	6	1	2	3	1	2	7	1	5	15	131	ST JOHNS
10	3	1	2	3	14	5	4	1	1	1		2	3	1	1	9	66	UNIV MINN
3	1	1		1	5	1	1	2				1				4	17	ST JOSEPH
1	1				2		1	1								3	10	COLLEGE CONN
2	2				2		1		1				1		1	11	17	ST JOSEPH
2	2															4	7	COLLEGE MO
					1		1									1	2	ST JOSEPH,
					1		1									1	2	COLL OF, MASS
1				1	2		1			1						2	6	ST JOS ON RIO
1				1	2		1			1						2	6	GR, C OF, N M
1		1			3	1	1			1						2	6	ST JOSEPHS
1		1			2	1	1									2	5	COLLEGE ME
24	17	1	3	3	9		6			3			1		1	7	111	ST JOSEPHS
19	15		2	2	6		4			2			1		1	4	74	COLLEGE PA
8	1	2	3	2	12	1	4	1	1	5			11	1	10	2	59	ST JOSEPHS
2		1	1		1		1						2	1	1	1	26	COLLEGE IND
7	3		2	1	19	6	11	2								12	40	ST JOSEPHS COL
4	2		2		6	2	3	1								5	16	FOR WOMEN N Y
6	2	3		1	31	9	4	1	1	15			14		13	11	64	ST JOSEPHS SEM
2	1	1			5	2		1		2						4	12	& COLLEGE N Y
													2		2		2	ST JOSEPHS SEM
													2		2		2	OF WASH D C
26	16	6	2	1	15	3	8	1		1	2		3	1	1	32	147	ST LAWRENCE
10	7	1	1	1	6		5			1			1			3	46	UNIVERSITY N Y
																	20	ST LOUIS COLL
																	9	OF PHARMACY
					2							2					2	ST LOUIS INST
					2							2					2	OF MUSIC MO
87	30	23	24	8	160	50	40	12	27	26	4		12	6	6	46	500	ST LOUIS
39	19	8	5	5	55	18	19	4	7	5	2		4	2	2	20	191	UNIVERSITY
3	1	1		1	4	2				1	1						15	ST MARTINS
1	1				2	1					1						8	COLLEGE WASH
1	1				6	2	1			3			1		1	5	20	ST MARY
1	1				1					1						1	4	COLLEGE KAN
					1	1										1	3	ST MARY,
					1	1											2	COLL OF, NEBR
3		2	1		9	1	4		1	2		1	1		1	7	23	ST MARY OF THE
2		2			4		3					1				2	8	LAKE SEM ILL
																1	1	ST MARY OF THE
																1	1	PLAINS COL KAN
6	4	2			11	5	2	1	1	1		1	1			4	26	ST MARY SPRNGS,
3	2	1			4	2	1					1	1			3	13	COLL OF, OHIO
1					15		5	3	2		2	2	2		1	2	23	ST MARY OF THE
	1				5		1				2	2	1		1	1	8	WOODS COLL IND
1				1	22	4	8	3	3	3		1	6		6	7	43	ST MARYS
					5	2	2		1				1		1	5	14	COLLEGE IND
3		3			1					1							5	ST MARYS
1		1			1					1							2	COLLEGE MICH
7	4	1	2		8		5			3			2	1	1	6	72	ST MARYS
6	3	1	2		4		3			1			1	1		2	35	COLLEGE MINN

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
ST MARYS COLLEGE KAN	1920-66																				
	1960-66																				
ST MARYS COLLEGE KY	1920-66																				
	1960-66																				
ST MARYS COLL OF CALIFORNIA	1920-66	11		3	1		8	3	2					3			2			1	
	1960-66	4		1	1		3	2	1					3			2			1	
ST MARYS DOMINICAN C LA	1920-66	1	1											1			1				
	1960-66	1	1											1			1				
ST MARYS SEMINARY CONN	1920-66																				
	1960-66																				
ST MARYS SEMINARY MD	1920-66	1					1							2			1			1	
	1960-66	1					1														
ST MARYS SEM & UNIVERSITY MD	1920-66																				
	1960-66																				
ST MARYS UNIV OF SAN ANTONIO	1920-66	33	4	17	1	5	11	1	6		1			1			1				
	1960-66	22	3	12		4	6	1	5		1			1			1				
ST MEINRAD SEMINARY IND	1920-66	2					2		1					1							1
	1960-66	1					1		1												
ST MICHAELS COLLEGE VT	1920-66	14	1				13	1	2					11		1	5	2			3
	1960-66	7					7		2					6			2	2			2
ST NORBERT COLLEGE WISC	1920-66	11	2	2			5		3	2				15	4	1	2	3			5
	1960-66	4	1	1			1		1	1				6			2	3			1
ST OLAF COLLEGE MINN	1920-66	153	9	33	2	5	109	41	9		2			64	5	4	25	7			23
	1960-66	58	4	13	1	4	39	24	6		2			22	2	1	9	4			6
ST PATRICKS COLLEGE CAL	1920-66																				
	1960-66																				
ST PAUL BIBLE COLLEGE MINN	1920-66																				
	1960-66																				
ST PAUL SEMINARY MINN	1920-66																				
	1960-66																				
ST PAULS COLLEGE VA	1920-66																				
	1960-66																				
ST PAULS COLLEGE D C	1920-66																				
	1960-66																				
ST PETERS COLLEGE N J	1920-66	38	4	5		1	29	10	8					26		1	14	5			6
	1960-66	23	4	2		1	17	9	7					12		1	9	2			
ST PIUS X SEMINARY N Y	1920-66																				
	1960-66																				
ST PROCOPIUS COLLEGE ILL	1920-66	25	1	16		1	8	4	1					3		1	1				1
	1960-66	10	1	7			2	2													
SAINT ROSE, COLL OF, N Y	1920-66	3	1				2	1						3		1		1			1
	1960-66	1	1											1							1
ST SCHOLASTICA, COLL OF, MINN	1920-66	1					1	1						1							1
	1960-66	1					1	1													
ST TERESA, COLL OF, MINN	1920-66	7	2	2			3	1						3			2				1
	1960-66	3					3	1						1			1				
ST THOMAS, COLL OF, MINN	1920-66	77	7	5	1	1	61	25	7		4		1	35	3	5	14	8			5
	1960-66	29	1	3	1		22	13	3		3		1	16	1	2	9	3			1
ST THOMAS, UNIV OF, TEX	1920-66	7		2			5	3	2					2				1	1		
	1960-66	7		2			5	3	2					1				1			
ST THOMAS SEMINARY COLO	1920-66																				
	1960-66																				
ST VINCENT COLLEGE PA	1920-66	34		1			33	9	5					13			4	4			5
	1960-66	15					15	7	5					4			2	2			
ST XAVIER COLLEGE ILL	1920-66	4	2				2	1						4		1		2			1
	1960-66													1		1					
SALEM COLLEGE W VA	1920-66	5					4				1			6		1		1			4
	1960-66													1		1					
SALEM COLLEGE N C	1920-66	2					2														
	1960-66																				

Doctorates by Field																					
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
					3	2			1								1	4	ST MARYS
																	1	1	COLLEGE KAN
2	1			1										1		1	1	4	ST MARYS
																			COLLEGE KY
7	2			3	2	13	3	5	2	1	2			1			15	50	ST MARYS COLL
4	1			2	1	6	2	2			2			1			8	26	OF CALIFORNIA
2	2					2	1					1						6	ST MARYS
1	1					1	1											4	DOMINICAN C LA
2	1		1			3		1			2			2		2	2	9	ST MARYS
																	1	1	SEMINARY CONN
2	1			1		8	1	3		2	2			2		2	4	19	ST MARYS
						4	1	2		1								5	SEMINARY MD
9	4		2	3		23	6	6	2	4	5			27		26	13	72	ST MARYS SEM &
3	2			1		6	3	2		1				9		8	4	22	UNIVERSITY MD
9	2		3	4		13	6	4		1	2						5	61	ST MARYS UNIV
6	2		1	3		8	3	4			1						4	41	OF SAN ANTONIO
2	1		1			12	4	1		2	5			4		4	4	25	ST MEINRAD
1	1					3	2				1						3	8	SEMINARY IND
8	1		3	1	2	8	2	3		2	1						1	42	ST MICHAELS
5	1		1		2	3		2		1							1	22	COLLEGE VT
10	7		1	1	1	15	6	3	2	1	2		1	2		2	9	62	ST NORBERT
9	7		1		1	4	1	1	1				1	1		1	6	30	COLLEGE WISC
30	12	1	3	8	5	75	20	17	11	2	6	5	13	28	5	21	64	414	ST OLAF
11	5	1	3		1	30	4	5	5		4	2	9	9		9	23	153	COLLEGE MINN
5	1		1	2	1	6	5				1			4		4	8	23	ST PATRICKS
						2	2							3		3	4	9	COLLEGE CAL
1			1															1	ST PAUL BIBLE
1			1															1	COLLEGE MINN
3	1		1		1	6	3	1	1	1				4		4	1	14	ST PAUL
1	1					2		1		1				3		3	1	7	SEMINARY MINN
																	1	1	ST PAULS
																	1	1	COLLEGE VA
						1	1							2		2		3	ST PAULS
														2		2		2	COLLEGE D C
16	9		3	2	1	13	2	5	4		2			2	1		10	105	ST PETERS
9	5		2	1		9	1	4	3		1			1	1		6	60	COLLEGE N J
1	1																	1	ST PIUS X
1	1																	1	SEMINARY N Y
1	1					6	2			3	1			1		1	1	37	ST PROCOPIUS
1	1					2				1	1							13	COLLEGE ILL
6	2			1	1	11	2	3	3		2	1		1		1	5	29	SAINT ROSE,
2						4	1	2				1					4	12	COLL OF, N Y
3	2		1			4	1	2					1				6	15	ST SCHOLASTICA,
2	1		1			2		1					1				3	8	COLL OF, MINN
4	1			2		16	3	7	1	2	2	1		2		2	4	36	ST TERESA,
1				1		7		3	1	2	1			1		1		13	COLL OF, MINN
16	10		3	1	2	20	5	8	2	1	2	1	1	2		2	13	163	ST THOMAS,
8	4		1	1	2	13	4	4	2		1	1	1				6	72	COLL OF, MINN
																	1	10	ST THOMAS,
																	1	9	UNIV OF, TEX
						1					1						2	3	ST THOMAS
																	1	1	SEMINARY COLO
14	5		2	5	2	16	4	2		4	6			5	1	4	15	97	ST VINCENT
6	3		1	1	1	7	4			1	2			2		2	8	42	COLLEGE PA
4	2		1		1	5	1		2	2							8	25	ST XAVIER
						1			1								5	7	COLLEGE ILL
						4	2	1					1	1	1		6	22	SALEM COLLEGE
																	2	3	W VA
1	1					5		3	1	1				1			3	12	SALEM
						2		2						1			3	6	COLLEGE N C

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
SALISBURY STATE COLLEGE MD	1920-66																			
	1960-66																			
SALEM, STATE COLL AT, MASS	1920-66													1						1
	1960-66													1						1
SAM HOUSTON STATE COLL TEX	1920-66	8	6				2							23	5	2	6	7		3
	1960-66	3	3											15	5	1	5	3		1
SAMFORD UNIVERSITY ALA	1920-66	36	4	4			26	5	5		2	2		15		5	2	1		7
	1960-66	8	3	2			3	1	2					5		1	1			3
SAN DIEGO STATE COLLEGE	1920-66	54	10	6	1		25	8	8	6	7	1		55	5	2	13	12	1	22
	1960-66	32	9	3	1		15	7	5	2	3			23	3	1	4	7		8
SAN DIEGO, UNIV OF, WOMEN	1920-66													1				1		
	1960-66													1				1		
SAN FERNANDO VAL ST COL CAL	1920-66													1						1
	1960-66													1						1
SAN FRANCISCO COLL FOR WOMEN	1920-66													3			1	1		1
	1960-66													1			1			
SAN FRANCISCO STATE COLLEGE	1920-66	9	1	1	1		7		1					19		4	7	3		5
	1960-66	7	1	1	1		5		1					14		3	6	3		2
SAN FRANCISCO THEOL SEM	1920-66																			
	1960-66																			
SAN FRANCISCO, UNIVERSITY OF	1920-66	26		8	3	3	18	6	1					19			14	2		3
	1960-66	13		5	3	1	8	5	1					8			7	1		
SAN JOSE STATE COLLEGE CAL	1920-66	72	13	4			39	9	8	5	11		2	75	2	2	10	37	2	22
	1960-66	31	9	1			8	4	3	3	10		2	35	2	1	5	21	1	5
SAN LUIS REY COLLEGE CAL	1920-66																			
	1960-66																			
SANTA CLARA, UNIVERSITY OF	1920-66	32		6	1	1	13	3	3	1	12		5	6			2	1	1	2
	1960-66	18		5	1	1	6	2	3	1	6		3	4			2		1	1
SANTA FE, COLLEGE OF	1920-66	1	1											1			1			
	1960-66	1	1											1			1			
SARAH LAWRENCE COLLEGE N Y	1920-66	1					1							3		1	1	1		
	1960-66													1				1		
SAVANNAH STATE COLLEGE GA	1920-66	1					1							2	1		1			
	1960-66													1			1			
SCARRITT COLL F CHRIST TENN	1920-66																			
	1960-66																			
SCHOOL OF ART INST CHICAGO	1920-66	1									1									
	1960-66																			
SCRANTON, UNIVERSITY OF	1920-66	50		20			29	6	3		1		1	51		5	23	17		6
	1960-66	15		5			9	5	1		1		1	23		2	12	7		2
SCRIPPS COLLEGE CAL	1920-66													2				1		1
	1960-66																			
SEATTLE PACIFIC COLLEGE	1920-66	14	1	7	3		6	3	1					6			4	1		1
	1960-66	9	1	4	3		4	2	1					4			2	1		1
SEATTLE UNIVERSITY	1920-66	24	5	3	2		9	1	2		7	3	3	1						1
	1960-66	16	3	3	2		4	1	1		6	2	3	1						1
SETON HALL UNIVERSITY N J	1920-66	21	2				18	11	3		1	1		21			12	3		6
	1960-66	13	2				10	8	2		1	1		3			3			
SETON HILL COLLEGE PA	1920-66	3					3							14		3	2	5		4
	1960-66	1					1							5		1		4		
SHAW UNIVERSITY N CAR	1920-66													4		2		2		
	1960-66													2		2				
SHELTON COLLEGE N J	1920-66																			
	1960-66																			
SHENANDOAH CONS OF MUSIC VA	1920-66																			
	1960-66																			
SHEPHERD COLLEGE W VA	1920-66	3					3	3						3		1	1			1
	1960-66	2					2	2						3		1	1			1
SHERWOOD MUSIC SCHOOL ILL	1920-66																			
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
																	6	6	SALISBURY STATE
																	5	5	COLLEGE MD
3	1	1				2		1				1					28	34	SALEM, STATE
1						2		1				1					13	17	COLL AT, MASS
9	3		3	1	1	10	5	5					3	2			52	105	SAM HOUSTON
3	1		2			1	1						1				28	51	STATE COLL TEX
12	5		2	4	1	16	5	3	4		4		7	2	4		35	121	SAMFORD
5	1		1	2	1	11	4	1	2		4		3		2		17	49	UNIVERSITY ALA
67	39	3	9	7	5	42	13	11	7		10	1	7	5	1		74	299	SAN DIEGO
41	25	1	9	2	3	20	6	4	3		7		4	3	1		36	156	STATE COLLEGE
						1			1									2	SAN DIEGO,
																		1	UNIV OF, WOMEN
1					1	1	1										1	4	SAN FERNANDO
1					1	1	1										1	4	VAL ST COL CAL
						19	5	4	9		1						5	27	SAN FRANCISCO
						4			3		1						1	6	COLL FOR WOMEN
47	21	1	9	5	7	27	6	4	4		4	1	8	1			110	213	SAN FRANCISCO
33	17	1	4	2	6	18	2	3	4		2	1	6				51	123	STATE COLLEGE
						2			1		1							2	SAN FRANCISCO
						1					1							1	THEOL SEM
9	2		1	2	4	12	8	2	1		1			2	2		15	83	SAN FRANCISCO,
7	2		1	2	2	6	5				1			2	2		9	45	UNIVERSITY OF
58	36	2	4	7	6	47	15	7	4	2	2	10	7	8	6	2	155	415	SAN JOSE STATE
37	27	2	1	3	2	24	4	5	4	1		5	5	5	5		66	198	COLLEGE CAL
1	1					5	3	1			1						1	7	SAN LUIS REY
1	1					4	3	1									1	6	COLLEGE CAL
6	1			4	1	9	4	1			4						7	60	SANTA CLARA,
5	1			3	1	7	3	1			3						6	40	UNIVERSITY OF
						2	2											4	SANTA FE,
						2	2											4	COLLEGE OF
10	7	1			1	4	3	1						1			3	22	SARAH LAWRENCE
7	6					1	1										1	10	COLLEGE N Y
3				3		2		2						1	1		6	15	SAVANNAH STATE
														1	1		5	7	COLLEGE GA
1			1											1		1	1	3	SCARRITT COLL
																			F CHRIST TENN
1		1				14			1			7	6				5	21	SCHOOL OF ART
						8						4	4				4	12	INST CHICAGO
12	7		3	2		19	3	9	2	2	3			3	2	1	11	146	SCRANTON,
1	1					5		2	1	1	1			2	2		4	50	UNIVERSITY OF
3	1				2	4	1	3						1		1	1	11	SCRIPPS
2					2	3		3						1		1	1	7	COLLEGE CAL
11	5		5	1		10	2	1	5				2	8	2	5	18	67	SEATTLE PACIFIC
5	2		3			4			2				2	4	1	3	5	31	COLLEGE
15	6		4	2	3	7	2	1			3		1	2	1	1	8	57	SEATTLE
11	5		3		3	4	1				2		1	2	1	1	7	41	UNIVERSITY
21	10		5	2	4	27	9	7	3	4	3	1		8	1	5	50	148	SETON HALL
12	8		1	2	1	12	4	3	1	2	1	1		4	1	3	26	70	UNIVERSITY N J
7	5		1	1		11	1	5	3	2							1	36	SETON HILL
1	1					3		2	1								1	11	COLLEGE PA
6	1		2	1	2	7	2	4	1					1		1	6	24	SHAW UNIVERSITY
3			2		1	1			1					1		1	2	9	N CAR
2	1					3			1	2								5	SHELTON
1						3			1	2								4	COLLEGE N J
						1							1				2	3	SHENANDOAH CONS
						1							1				2	3	OF MUSIC VA
2	1				1	4	2	1				1					7	19	SHEPHERD
2	1				1	2	1					1					2	11	COLLEGE W VA
						1							1					1	SHERWOOD MUSIC
						1							1					1	SCHOOL ILL

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																			
SHIMER	1920-66	4		3	1		1	1						1					1		
COLLEGE ILL	1960-66	4		3	1		1	1						1					1		
SHIPPENSBURG	1920-66	3	3											6			1	2		3	
STATE COLL PA	1960-66	3	3											4			1	1		2	
SHORTER	1920-66													1				1			
COLLEGE GA	1960-66																				
SIENA	1920-66													1				1			
COLLEGE TENN	1960-66																				
SIENA HEIGHTS	1920-66	6	2				4	1						1				1			
COLLEGE MICH	1960-66	2	1				1	1						1				1			
SIMMONS	1920-66	16					16	1	1					22		1	11	6		4	
COLLEGE MASS	1960-66	2					2	1						7			3	3		1	
SIMPSON BIBLE	1920-66																				
COLLEGE CAL	1960-66																				
SIMPSON	1920-66	26	6	4		1	10	3	1	4	2	1		21	4	1	5	4		7	
COLLEGE IOWA	1960-66	6	3	1						2				4	1		1			2	
SIOUX FALLS	1920-66	6	1				5	3						10		2	2		1	5	
COLLEGE S D	1960-66	1					1	1						2			1			1	
SKIDMORE	1920-66	1					1							2				1		1	
COLLEGE N Y	1960-66													1				1			
SLIPPERY ROCK	1920-66	1		1										11	1			1		9	
STATE COLL PA	1960-66	1		1																	
SMITH	1920-66	40	5	7			21	3		7				77	1	12	22	15		27	
COLLEGE MASS	1960-66	8	1	1			6	3						18		1	10	3		4	
SOUTH, UNIV OF	1920-66	36	5	9			22	2	4					11	1	1	3	4		2	
THE, TENN	1960-66	9	2	3			4	1	1					6	1	1	1	1		2	
SOUTH CAROLINA	1920-66	2					2	1	1					4	1		1			2	
STATE COLLEGE	1960-66	1					1		1					2						2	
SOUTH CAROLINA,	1920-66	104	12	12		2	47	5	10	5	28	10	6	33	2	9	8	1	1	12	
UNIVERSITY OF	1960-66	37	2	4		2	13	3	7	2	16	7	5	10	1	3	3		1	2	
S D SCHOOL OF	1920-66	116	9	16	2	3	34	6	6	13	44	8	8	3	1		2				
MINES & TECH	1960-66	57	8	6	2	3	9	3	2	5	29	7	7	2			2				
SOUTH DAKOTA	1920-66	66	2	14	1	1	23	3	2	2	25		7	159	57	17	31	36		18	
STATE UNIV	1960-66	26	1	5	1	1	4	1	1	1	15		4	56	25	5	10	15		1	
SOUTH DAKOTA,	1920-66	61	6	8			39	4	11	5	3			36	2	6	7	10	1	10	
UNIVERSITY OF	1960-66	12	3	1			7		4	1				15		3	3	5	1	3	
SOUTHEAST MO	1920-66	48	3	12	2	1	32	9	8		1			16	1		6	4		5	
STATE COLLEGE	1960-66	17	2	3	2	1	12	3	4					6			2	3		1	
SOUTHEASTERN	1920-66	18	1				15	7	5		2		1								
MASS TECH INST	1960-66	13	1				10	5	3		2		1								
SOUTHEASTERN	1920-66	15	3				12	2	3					12	7		2	2		1	
LOUISIANA COLL	1960-66	9	3				6	2	1					7	4			2		1	
SOUTHEASTERN	1920-66	9	3				4		1	1	1	1		7	1			2		4	
STATE COL OKLA	1960-66	5	2				1		1	1	1	1		2	1			1			
SOUTHEASTERN	1920-66	1					1	1						1		1					
UNIVERSITY D C	1960-66																				
SOUTHERN BAPT	1920-66																				
THEOL SEM KY	1960-66																				
SOUTHERN CALIF	1920-66																				
COLLEGE	1960-66																				
SOUTHERN COLL	1920-66													1		1					
OF OPTOM TENN	1960-66													1		1					
SOUTHERN CALIF,	1920-66	125	13	14		2	36	8	7	20	42	9	10	87	2	12	33	22		18	
UNIVERSITY OF	1960-66	61	4	5		1	15	7	6	10	27	4	7	19	1	3	6	7		2	
SOUTHERN CONN	1920-66	1					1	1						1						1	
STATE COLLEGE	1960-66	1					1	1						1						1	
SOUTHERN	1920-66	82	11	3			60	9	5	5	3		1	58	15	3	9	9		22	
ILLINOIS UNIV	1960-66	36	6				22	7	4	5	3		1	31	12		6	7		6	
SOUTHERN METHOD	1920-66	127	20	20	1	2	35	10	7	23	29		9	40	4	3	7	9	1	16	
UNIVERSITY TEX	1960-66	50	6	7		2	9	4	4	10	18		6	15	2	1	4	5	1	2	

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	1				1	1	1							1				9	SHIMER
2	1				1	1	1							1				9	COLLEGE ILL
4	1				1	4	2	2						3	3		52	72	SHIPPENSBURG
1						1		1						3	3		23	35	STATE COLL PA
						3		1	2								3	7	SHORTER
						2		1	1								1	3	COLLEGE GA
3	1	1	1														2	6	SIENA
2	1	1															1	3	COLLEGE TENN
						11	4	3		2	1		1	2		2	9	29	SIENA HEIGHTS
						2	1			1							3	8	COLLEGE MICH
9	4		2	3		4		2	2					6	1	1	13	70	SIMMONS
2	1			1		2		1	1					3			6	22	COLLEGE MASS
						1			1					1		1	1	3	SIMPSON BIBLE
						1			1					1		1	1	3	COLLEGE CAL
16	4	1	1	8	2	22	8	4	4		2	3	1	6	2	3	24	115	SIMPSON
4		1	1	2		5		2	1			1	1	1		1	5	25	COLLEGE IOWA
6			5		1	7	2		1			4		6	1	5	7	42	SIOUX FALLS
2			2			2						2		2		2	3	12	COLLEGE S D
3	2		1			3		2				1		1			2	12	SKIDMORE
1	1					1						1					2	5	COLLEGE N Y
5	2			1		7	4	2				1					64	88	SLIPPERY ROCK
1	1					5	3	1				1					40	47	STATE COLL PA
85	47	8	8	11	8	145	45	36	35	7	9	2	10	8		4	32	387	SMITH
15	7		1	3	3	38	12	9	10		1	2	4	2		2	12	93	COLLEGE MASS
13	2	2		4	5	49	13	23	7	2	2			5		5	3	117	SOUTH, UNIV OF
8	2	2		1	3	23	7	7	4	1	2			4		4	1	51	THE, TENN
2			1			2	1		1					2		2	23	35	SOUTH CAROLINA
1						1	1							1		1	15	21	STATE COLLEGE
49	24	2	5	12	5	62	17	26	14	1	3	1		5	1	2	34	287	SOUTH CAROLINA,
18	10			5	2	15	6	5	2		1	1		2	1		14	96	UNIVERSITY OF
2	1																1	122	S D SCHOOL OF
1																		60	MINES & TECH
39	3	1	4	28	2	5	1	2				2		6			24	299	SOUTH DAKOTA
22	2	1	2	15	2	2	1	1						6			13	125	STATE UNIV
28	13		2	5	8	39	14	7	4		1	12	1	8	3	2	28	200	SOUTH DAKOTA,
9	4		1	2	2	13	6	3	2		1	1		3	2	1	11	63	UNIVERSITY OF
13	5		1	2	4	25	9		1			13	2	3	1		87	192	SOUTHEAST MO
5	2				2	9	2		1			5	1	1			26	64	STATE COLLEGE
														1	1			19	SOUTHEASTERN
														1	1			14	MASS TECH INST
5			3	1		5	2		1			1	1				11	48	SOUTHEASTERN
3			1	1		3	2					1					8	30	LOUISIANA COLL
4	2				1	10	5	2				2	1				59	89	SOUTHEASTERN
2	1					2	1						1				23	34	STATE COL OKLA
																	2	4	SOUTHEASTERN UNIVERSITY D C
1			1			2			1	1								3	SOUTHERN BAPT THEOL SEM KY
1					1									2		2	1	4	SOUTHERN CALIF
1					1												1	2	COLLEGE
																		1	SOUTHERN COLL
																		1	OF OPTOM TENN
208	98	4	30	30	42	141	34	21	25	5	11	25	18	34	8	18	204	799	SOUTHERN CALIF,
72	36		8	12	14	47	9	9	9	1	3	9	6	6	2	3	89	294	UNIVERSITY OF
1	1					2		1	1					1		1	27	33	SOUTHERN CONN
						1		1						1		1	18	22	STATE COLLEGE
75	27	1	3	19	16	50	16	6	7	3		11	7	7	6	1	157	429	SOUTHERN
25	12	1	1	6	3	20	2	5	3			9	1	3	2	1	66	181	ILLINOIS UNIV
88	50	1	8	14	8	75	21	22	13	2	6	4	5	32	7	20	56	418	SOUTHERN METHOD
38	22		3	7	3	24	3	7	5		2	3	4	17	3	12	21	165	UNIVERSITY TEX

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
STHN MISSIONARY	1920-66	3					3	2						2			2				
COLLEGE TENN	1960-66	2					2	2						2			2				
SOUTHERN MISS,	1920-66	24	8	1		1	13	3	7	2				5		1	1				3
UNIVERSITY OF	1960-66	17	3	1		1	11	3	7	2				3							3
SOUTHERN OREGON	1920-66	2	1				1	1													
COLLEGE	1960-66	2	1				1	1													
SOUTHERN STATE	1920-66	3					3	1	2												
COLLEGE ARK	1960-66	3					3	1	2												
SOUTHERN	1920-66													1			1				
STATE COLL S D	1960-66													1			1				
SOUTHERN UNIV &	1920-66	2					2	1	1					16	5		3	2		6	
AG & MECH C LA	1960-66	2					2	1	1					8			3	2		3	
SOUTHERN UTAH,	1920-66	1									1			4	2			1		1	
COLLEGE OF	1960-66													1	1						
SOUTHWEST MO	1920-66	27	8	4		1	14	3	1	1				23			8	8		7	
STATE COLLEGE	1960-66	10	4	3		1	3	1	1					12			4	3		5	
SOUTHWEST TEXAS	1920-66	26	5	1			20	9	2					24	5		8	5	1	5	
STATE COLLEGE	1960-66	8	1				7	4						10	4		3	1	1	1	
SW ASSEMBLIES	1920-66																				
OF GOD COL TEX	1960-66																				
SOUTHWESTERN	1920-66	38	6	13	1	1	17	8		1	1			10			4	4		2	
AT MEMPHIS	1960-66	18	2	4	1	1	10	8		1	1			4			2	1		1	
SOUTHWESTERN	1920-66	37	5	8			22	3	2		2	2		31	1	1	6	7	1	15	
COLLEGE KAN	1960-66	3	1	1			1							6	1		1	2		2	
SOUTHWESTERN LA	1920-66	46	5	12		1	15	2	1	3	11	5	3	56	29	4	3	11		9	
UNIVERSITY OF	1960-66	28	2	6		1	9	2	1	2	9	4	3	19	9	1	1	5		3	
SOUTHWESTERN	1920-66	8	2				6	1	1					7		1		3		3	
STATE COL OKLA	1960-66	2					2	1						1				1			
SOUTHWESTERN	1920-66	30	5	6	1		17	3	2	2				9			1	3		5	
UNIVERSITY TEX	1960-66	10		4	1		4	1	2	2				2				2			
SPELMAN	1920-66													3		1				2	
COLLEGE GA	1960-66																				
SPRING HILL	1920-66	52	10	10		2	32	10	7					19			2	14	1	2	
COLLEGE ALA	1960-66	37	9	8		2	20	8	6					13				11	1	1	
SPRINGFIELD	1920-66	1					1							14		2	7	3		2	
COLLEGE MASS	1960-66	1					1							4			3	1			
STANFORD	1920-66	612	68	110	11	18	154	22	14	87	193	16	42	206	2	20	55	52	3	74	
UNIVERSITY CAL	1960-66	243	24	49	10	17	20	9	8	40	110	10	21	47		3	19	14	2	9	
STANISLAUS	1920-66																				
STATE COLL CAL	1960-66																				
STEPHEN F	1920-66	15	3				12	2	3					11	2	1	3	3		2	
AUSTIN S C TEX	1960-66	7	2				5	2	3					7	1	1	2	2		1	
STERLING	1920-66	23		2			21	4	1					6			3	2		1	
COLLEGE KAN	1960-66	5					5	4	1					2			2				
STETSON	1920-66	25	8	2			14	6		1				10			5	2		3	
UNIVERSITY FLA	1960-66	6	1				4	4		1				2				1		1	
STEUBENVILLE,	1920-66	2	1				1							1			1				
COLL OF, OHIO	1960-66	1	1																		
STEVENS INST OF	1920-66	102	10	36	7	2	12	3	4		44	5	4								
TECHNOLOGY N J	1960-66	62	6	22	6	2	7	2	4		27	4	2								
STILLMAN	1920-66																				
COLLEGE ALA	1960-66																				
STONEHILL	1920-66													4			3			1	
COLLEGE MASS	1960-66													3			3				
STONY BROOK,	1920-66	1					1	1													
SUNY AT	1960-66	1					1	1													
STOUT STATE	1920-66													3	1	1		1			
UNIV WISC	1960-66																				
SUFFOLK	1920-66	6	1	1			2		2		2			2						2	
UNIV MASS	1960-66	5	1				2		2		2			2						2	

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2	2					2	1		1				2		2			11	STHN MISSIONARY
2	2					2	1		1				2		2			10	COLLEGE TENN
14	6		1	3	2	16	2	9	1			3	1	4	2	1	50	113	SOUTHERN MISS,
7	5				1	11		7				3	1	3	2		25	66	UNIVERSITY OF
1																	13	16	SOUTHERN OREGON
1																	10	13	COLLEGE
3	1			1	1									1	1		3	10	SOUTHERN STATE
3	1			1	1									1	1		2	9	COLLEGE ARK
																	7	8	SOUTHERN
																	3	4	STATE COLL S D
9	1	1	1	2	4	2		1					1	2	2		15	46	SOUTHERN UNIV &
1				1										1	1		6	18	AG & MECH C LA
																	4	9	SOUTHERN UTAH,
																	3	4	COLLEGE OF
29	3		5	8	8	40	18	4	3			10	5	8	6		168	295	SOUTHWEST MO
5	1		1		1	20	7	2	2			8	1	2	2		50	99	STATE COLLEGE
12	3			3	6	16	5	7				4		4	2		58	140	SOUTHWEST TEXAS
6	1			1	4	7	1	3				3		2			15	48	STATE COLLEGE
						1			1								2	3	SW ASSEMBLIES
						1			1								2	3	OF GOD COL TEX
25	12		2	3	8	27	7	10	2	1	2	1	4	12	1	10	8	120	SOUTHWESTERN
11	6				5	15	6	2	1		1	1	4	6	1	4	4	58	AT MEMPHIS
15	3		2	7	3	21	8	6		1	1	4		4		3	38	146	SOUTHWESTERN
1	1					4	2					2					18	32	COLLEGE KAN
8	2			5		19	7	3	5		1	3		4	3		32	165	SOUTHWESTERN LA
5	2			2		8	2	2	1		1	2		1	1		17	78	UNIVERSITY OF
3	2		1			2		2						1			47	68	SOUTHWESTERN
1			1			2		2									28	34	STATE COL OKLA
12	4		1	2	3	30	8	6	9	1	2	2	1	11	3	7	24	116	SOUTHWESTERN
1	1					3	1	1					1	4		4	3	23	UNIVERSITY TEX
1	1					5	2	2				1					7	16	SPELMAN
						2	1	1									1	3	COLLEGE GA
7	2		2	3		15	1	6	1		7			1			4	98	SPRING HILL
5	2		1	2		9	1	4	1		3						2	66	COLLEGE ALA
32	25	1	2	2	2	6	3	2			1			4	1	3	149	206	SPRINGFIELD
7	6		1			1		1						2		2	48	63	COLLEGE MASS
355	164	21	21	71	67	336	132	74	52	10	33	22	11	36	19	8	195	1740	STANFORD
110	54	10	7	17	16	104	40	22	15	2	9	11	5	14	9	3	44	562	UNIVERSITY CAL
																	1	1	STANISLAUS
																	1	1	STATE COLL CAL
7	2			4	1	7	2	3			1	1		4	3	1	30	74	STEPHEN F
2	1			1		4		2			1	1		1	1		18	39	AUSTIN S C TEX
3	2		1			7	3	3				1		2		2	8	49	STERLING
						3	1	1				1					2	12	COLLEGE KAN
20	6	1	2	3	7	25	7	7	2	1	3	1	4	8	3	5	22	110	STETSON
15	5		2	2	5	14	4	6			3		1	6	2	4	11	54	UNIVERSITY FLA
1					1												2	6	STEUBENVILLE,
																	1	2	COLL OF, OHIO
7	4		1	2										1	1		3	113	STEVENS INST OF
4	3			1													1	67	TECHNOLOGY N J
1			1														1	2	STILLMAN
1			1														1	2	COLLEGE ALA
						7	1	4			2						1	12	STONEHILL
						6	1	3			2						1	10	COLLEGE MASS
																		1	STONY BROOK,
																		1	SUNY AT
2	1			1										2			71	78	STOUT STATE
1	1													2			26	29	UNIV WISC
4	3				1	5	1	2	2					2	1		5	24	SUFFOLK
2	2					3	1	1	1					1	1		4	17	UNIV MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
		Doctorates by Field																		
SUL ROSS STATE	1920-66	7		1			3			3				9	1		1			7
COLLEGE TEX	1960-66	3		1						2				5	1		1			3
SULPICIAN	1920-66	1	1																	
SEM OF NW WASH	1960-66	1	1																	
SUSQUEHANNA	1920-66	10		6	1		1				3		1	11			2	4		5
UNIVERSITY PA	1960-66	3		1	1		1				1		1	7			2	4		1
SWARTHMORE	1920-66	246	55	83	7	8	75	16	14	2	31	2	9	114	3	7	42	25		37
COLLEGE PA	1960-66	89	28	26	7	6	18	7	10	1	16		4	52	1	1	19	17		14
SWEET BRIAR	1920-66	2					2	1						4		1		2		1
COLLEGE VA	1960-66	2					2	1						2		1		1		
SYRACUSE	1920-66	306	15	46	2	9	139	28	18	31	75	23	13	209	29	15	43	55		67
UNIVERSITY	1960-66	94	5	13	2	6	29	13	8	11	36	6	8	50		5	11	23		11
TABOR	1920-66	2	1				1							11	1	1	2	5		2
COLLEGE KAN	1960-66	1	1											8		1	1	4		2
TALLADEGA	1920-66	10	3				6		2		1			8	1	4		2		1
COLLEGE ALA	1960-66	3	1				2		1					2				2		
TAMPA,	1920-66	6	2	1			3	1						4		1	2	1		
UNIVERSITY OF	1960-66	3	1				2	1						4		1	2	1		
TARKIO	1920-66	21		1	1		19	5	4	1				6	1		1	1		3
COLLEGE MO	1960-66	2		1	1		1		1											
TAYLOR	1920-66	3					3							9		1	5	2		1
UNIVERSITY IND	1960-66													3		1	1	1		
TEMPLE	1920-66	182	17	40		8	120	33	15	3	2			105		38	20	22		25
UNIVERSITY PA	1960-66	58	8	9		5	39	20	9		2			35		13	10	5		7
TENN AGRIC AND	1920-66	2					2							7	4		3			
IND STATE UNIV	1960-66	2					2							2			2			
TENN TECHNOL	1920-66	15	2	2			5	1	2		6	1	1	31	14	2	4	8		3
UNIVERSITY	1960-66	6					1		1		5	1	1	16	8		2	5		1
TENNESSEE	1920-66																			
TEMPLE COLLEGE	1960-66																			
TENNESSEE,	1920-66	159	12	20		2	47	1	12	5	75	19	11	144	55	16	13	28	1	31
UNIVERSITY OF	1960-66	75	7	8		2	12		7	2	46	7	8	53	30	6	5	6	1	5
TENN WESLEYAN	1920-66	1					1	1												
COLLEGE	1960-66	1					1	1												
TEXAS A & M	1920-66	259	17	32	3	3	51	4	6	17	142	39	26	246	99	27	45	48	4	23
UNIVERSITY	1960-66	140	10	20	2	3	12	1	2	12	86	25	10	110	42	13	27	17	4	7
TEXAS CHRISTIAN	1920-66	60	9	16	1	2	22	10		12	1			20		1	6	5	1	7
UNIVERSITY	1960-66	27	4	7	1	2	10	8		5	1			6			3	2		1
TEXAS	1920-66	1					1	1						2				1		1
COLLEGE	1960-66	1					1	1												
TEXAS COLL OF	1920-66	32	3	12		1	12	1	2		5	4		12	5		2	4		1
ARTS & IND	1960-66	13	1	6		1	3	1			3	3		8	3		1	4		
TEXAS LUTHERAN	1920-66	5	1	1			3		2					3			1	2		
COLLEGE	1960-66	3	1				2		1					3			1	2		
TEXAS SOUTHERN	1920-66	4					4		2					7		2	2			3
UNIVERSITY	1960-66	3					3		2					5		1	2			2
TEXAS TECHNOL	1920-66	134	6	13		5	35	4	3	17	63	11	18	97	40	3	7	27	1	19
COLLEGE	1960-66	71	3	9		5	11	3	3	11	37	4	11	61	25		3	19		14
TEXAS,	1920-66	781	87	179	9	26	221	37	35	67	227	56	51	222	6	15	51	66		84
UNIVERSITY OF	1960-66	337	40	79	9	22	59	21	16	28	131	27	29	71	3	5	23	21		19
TEXAS WESLEYAN	1920-66	1								1										
COLLEGE	1960-66	1								1										
TEXAS WOMANS	1920-66	5					4		1		1			15		3	6	2		4
UNIVERSITY	1960-66													6			3	1		2
THEOL SEM REF	1920-66													1				1		
EPIS CHURCH PA	1960-66																			
THIEL	1920-66	11	1	1			8	2			1	1		11	1		1	3		6
COLLEGE PA	1960-66	1					1	1						4	1			2		1
TIFT	1920-66	1					1													
COLLEGE GA	1960-66	1					1													

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
1	1					4	1		2			1					14	35	SUL ROSS STATE
																	6	14	COLLEGE TEX
						1				1								2	SULPICIAN
																		1	SEM OF NW WASH
5	4				1	7	4	2					1	8	1	7	33	74	SUSQUEHANNA
1	1					1	1										6	18	UNIVERSITY PA
222	99	4	17	57	36	157	54	45	28	8	17		2	13	5	2	29	781	SWARTHMORE
95	46	1	7	21	16	62	21	17	12	3	6		2	5	4	1	8	311	COLLEGE PA
7	2	2	2			8	2	2		2	1	1					2	23	SWEET BRIAR
4	1	2				1		1										9	COLLEGE VA
263	105	12	14	43	62	165	55	49	19	3	11	15	6	36	12	18	222	1201	SYRACUSE
91	28	7	4	18	24	61	15	25	6	1	5	6		15	5	5	74	385	UNIVERSITY
9	7		2			10	2	3	3			1	1	4		4	9	45	TABOR
4	4					5	1	3				1		3		3	8	29	COLLEGE KAN
9	3		4		2	15	3	5	2		3	2		1		1	21	64	TALLADEGA
5	1		3		1	2		1				1					5	17	COLLEGE ALA
4	2			2		4	2	1	1								12	30	TAMPA,
1				1		1	1										9	18	UNIVERSITY OF
5	3			2		6	1	2		1	1	1		4	3	1	18	60	TARKIO
1	1					1		1						2	1	1	10	16	COLLEGE MO
4	2				1	10	3	2	1		1	2	1	9		9	25	60	TAYLOR
2	1				1									2		2	11	18	UNIVERSITY IND
179	106	7	20	28	12	103	30	23	26	1	6	7	9	28	10	14	221	818	TEMPLE
67	39	3	9	6	6	44	14	9	11	1	2	4	3	9	3	4	88	301	UNIVERSITY PA
6	3			1		6	1	3				2		2	1		19	42	TENN AGRIC AND
5	3					3		2				1		1			9	22	IND STATE UNIV
2				2		7	3	1	1			1	1	1	1		18	74	TENN TECHNOL
1				1		4	2	1	1					1	1		10	38	UNIVERSITY
2	2					1					1						5	8	TENNESSEE
2	2					1					1						5	8	TEMPLE COLLEGE
82	25		8	39	5	58	19	22	5	2	6	1	3	14	2	5	112	569	TENNESSEE,
41	13		3	22	2	18	7	3	2		3	1	2	9	1	3	47	243	UNIVERSITY OF
																		1	TENN WESLEYAN
																		1	COLLEGE
53	6	1	3	40	3	12	4	4	1		1	2		9	8	1	55	634	TEXAS A & M
21	1	1	1	17	1	4	2	2						7	7		31	313	UNIVERSITY
41	20		6	8	6	44	9	15	10		2	4	4	23	5	17	40	228	TEXAS CHRISTIAN
19	14			1	3	15	1	2	5		1	3	3	9	2	7	19	95	UNIVERSITY
														1		1	7	11	TEXAS
																	4	5	COLLEGE
9	1		1	6	1	13	8	3	2					6	6		13	85	TEXAS COLL OF
3				2	1	2	2							3	3		7	36	ARTS & IND
						4	2					2		2	1	1	1	15	TEXAS LUTHERAN
						4	2					2		2	1	1	1	13	COLLEGE
1	1													2	2			14	TEXAS SOUTHERN
1	1													2	2			11	UNIVERSITY
34	10	4	1	10	9	38	9	21	4		1	2	1	15	9	1	58	376	TEXAS TECHNOL
21	9	2		6	4	16	4	10	1			1		7	4	1	35	211	COLLEGE
356	123	17	29	116	65	388	114	125	91	7	16	22	10	117	73	14	177	2041	TEXAS,
117	52	9	6	30	16	129	26	43	32	5	7	10	6	52	37	7	60	766	UNIVERSITY OF
6	3		2		1	4	1	3						3		2	13	27	TEXAS WESLEYAN
4	2		2			2	1	1						2		2	4	13	COLLEGE
7	1		5		1	9		4	1			3	1	11			35	82	TEXAS WOMANS
5	1		4			2		1					1	8			19	40	UNIVERSITY
						1	1											2	THEOL SEM REF
						1	1											1	EPIS CHURCH PA
2				2		7	2			2	3			1		1	23	55	THIEL
						3	1				2			1		1	11	20	COLLEGE PA
1	1					3	1		1			1					4	9	TIFT
1	1																1	3	COLLEGE GA

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
TOCCOA FALLS INST, INC GA	1920-66																			
	1960-66																			
TOLEDO, UNIVERSITY OF	1920-66	57	1	12	2	2	35	4	4		9	4	2	36	1	10	8	11	2	4
	1960-66	20		6	2	2	10	3	4		4	2	2	10		4	1	3	2	
TOUGALOO COLLEGE MISS	1920-66	2	2											4			2	2		
	1960-66	2	2											4			2	2		
TOWSON STATE COLLEGE MD	1920-66													1			1			
	1960-66													1			1			
TRANSYLVANIA COLLEGE KY	1920-66	11	3	2		1	6	1						9	1			7		1
	1960-66	2	1				1	1												
TRENTON STATE COLLEGE N J	1920-66	2	2																	
	1960-66	1	1																	
TREVECCA NAZA- RENE COLL TENN	1920-66													1						1
	1960-66													1						1
TRI-STATE COLLEGE IND	1920-66	12									12	2	1							
	1960-66	12									12	2	1							
TRINITY COLLEGE VT	1920-66													1		1				
	1960-66													1		1				
TRINITY COLLEGE CONN	1920-66	82	6	19	1	2	45	8	14	5	7			20		5	5	5	1	4
	1960-66	27	2	5	1	2	14	4	9	2	4			8		1	3	1	1	2
TRINITY COLLEGE D C	1920-66	7	1				6	2	2					9		1		3		5
	1960-66	5	1				4	2	2					2		1				1
TRINITY UNIVERSITY TEX	1920-66	17	4				12	2	2		1			15		1	5	6		3
	1960-66	7	3				3		1		1			5			3	2		
TROY STATE COLLEGE ALA	1920-66	3	1				1				1	1		4		1		1	1	1
	1960-66	3	1				1				1	1		2				1	1	
TUFTS UNIV MASS	1920-66	154	6	17	1	3	73	17	10	24	34	5	5	105	2	14	33	21	3	32
	1960-66	53	3	3	1	1	15	6	4	15	17	3	3	44	1	2	13	15	2	11
TULANE UNIV OF LOUISIANA	1920-66	146	29	23	1	3	53	11	6	8	33	13	8	54	1	9	19	10		15
	1960-66	58	13	11	1	3	12	8	2	5	17	8	3	19		2	9	4		4
TULSA, UNIVERSITY OF	1920-66	53	3	4		1	15	3	3	19	12	6		15	1		3	1	2	8
	1960-66	30	2	3		1	6	1	2	9	10	4		6			1	1	1	3
TUSCULUM COLLEGE TENN	1920-66	10		3			7	2						7			1	1		5
	1960-66	2		1			1	1						3			1	1		1
TUSKEGEE INSTITUTE ALA	1920-66	7		1		1	5	3	1		1			22	10	4	2	3		3
	1960-66	4		1		1	3	2	1					10	2	3	2	1		2
UNION COLLEGE NEBR	1920-66	19	2	8		2	9	4	1					10		1	6	1		2
	1960-66	8	2	2		2	4	1	1					5			3			2
UNION COLLEGE KY	1920-66	5	1				4	1	1					2	1					1
	1960-66	3					3	1	1											
UNION COLLEGE & UNIVERSITY N Y	1920-66	233	9	80	6	9	99	11	16	13	32		14	39	1	17	8	6	3	4
	1960-66	82	5	26	3	7	32	8	10	10	9		2	15		5	4	3	2	1
UNION THEOL SEMINARY N Y	1920-66																			
	1960-66																			
UNION UNIV TENN	1920-66	19	4	1		1	13	3	2	1				8	1	1	2	1		3
	1960-66	6	3	1		1	2	2						2		1				1
U S AIR FORCE ACADEMY COLO	1920-66																			
	1960-66																			
U S COAST GUARD ACADEMY CONN	1920-66	12	3	2						1	6		3							
	1960-66	4		1							3		1							
U S MERCHANT MARINE AC N Y	1920-66	16	1	4		1				1	10	1	1	4			1	2		1
	1960-66	11	1	2		1				1	7		1	2				1		1
U S MILITARY ACADEMY N Y	1920-66	133	7	33	2		4		1	4	85		18	1			1			
	1960-66	80	4	18	2		1		1	2	55		12	1			1			
U S NAVAL ACADEMY MD	1920-66	136	17	45	3	5	5		1	2	67		13	8		1	3	1	1	2
	1960-66	86	11	26	3	4	3		1	1	45		8	4		1	2			1
UNITED THEOL SEMINARY OHIO	1920-66																			
	1960-66																			
UPPER IOWA UNIVERSITY	1920-66	4		1			3							7	2		1	1		3
	1960-66																			

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
						1				1								1	TOCCOA FALLS
						1				1								1	INST, INC GA
23	9	1	2	4	3	27	7	8	6		1	3	1	8	8		36	187	TOLEDO,
9	3	1		2	2	10		5	2			2		6	6		19	74	UNIVERSITY OF
3	2				1	2	1	1									2	13	TOUGALOO
1	1					1	1										1	4	COLLEGE MISS
3	2					1	1										23	28	TOWSON STATE
						1	1										16	18	COLLEGE MD
13	3		1	2	7	23	4	6	6	1	3	1	1	7		5	25	88	TRANSYLVANIA
4	1			1	2	8	3	2			2	1		1		1	5	20	COLLEGE KY
7	3	1	1	1	1	7	4					1	1				66	82	TRENTON STATE
1					1	5	3					1					24	31	COLLEGE N J
						2	2										2	5	TREVECCA NAZA-
																	2	3	RENE COLL TENN
																		12	TRI-STATE
																		12	COLLEGE IND
1	1					1		1										3	TRINITY
						1		1										2	COLLEGE VT
27	21		1	4	1	61	18	15	16	6	3		1	6	2	3	17	213	TRINITY
18	16			2		16	5	5		3	2		1	2	1		3	74	COLLEGE CONN
15	7	2	2	2	2	43	10	15	9	6	2	1		1			9	84	TRINITY
3	2				1	13	4	5	2		1	1					2	25	COLLEGE D C
26	17		3	1	4	19	6	5	2		4	1	1	4		4	19	100	TRINITY
14	11			1	2	2	1				1			3		3	8	39	UNIVERSITY TEX
1			1			7	1	5				1					39	54	TROY STATE
1			1			4		4									26	36	COLLEGE ALA
77	37	2	1	15	21	64	21	23	7	2	4	3	2	11	6	5	55	466	TUFTS UNIV
39	18	1		11	8	34	14	13	4	1			1	4	4		24	198	MASS
71	44	3	6	10	5	79	14	26	18	2	8	5	2	16	8	2	15	381	TULANE UNIV
30	16	3	3	4	3	37	4	12	9	1	5	4	1	4	2	2	8	156	OF LOUISIANA
17	12		2	2	1	21	4	6	2		1	5	3	9	3	4	22	137	TULSA,
8	6		1	1		5	1				1	1	2	5	2	2	13	67	UNIVERSITY OF
6	1	1		1	3	3	1	1	1								11	37	TUSCULUM
3		1			2												5	13	COLLEGE TENN
3			1	1	1	4	1	2				1		2			32	70	TUSKEGEE
1					1	1	1							2			16	34	INSTITUTE ALA
4	2			1	1	31	19	7	4			1		5	2	3	28	97	UNION
						9	2	4	2			1		2	1	1	14	38	COLLEGE NEBR
4			1		3	5	1	3				1		1		1	12	29	UNION
2					2	2		1				1					1	8	COLLEGE KY
68	35	2	8	12	10	51	13	20	7	4	6		1	16	5	4	37	444	UNION COLLEGE &
18	9		3	2	3	14	3	5	4		2			5	2	1	4	138	UNIVERSITY N Y
														1		1	2	3	UNION THEOL
														1		1		1	SEMINARY N Y
6	5		1			9	3	4		1			1	3	1	2	14	59	UNION
2	1		1			5	3	1					1	1		1	5	21	UNIV TENN
1					1													1	U S AIR FORCE
1					1													1	ACADEMY COLO
1	1													3	3		1	17	U S COAST GUARD
														3	3		1	8	ACADEMY CONN
6	2		1	1	1	4		2	1			1		5	2	1	2	37	U S MERCHANT
3	2					2		2						4	2	1	2	24	MARINE AC N Y
61	8	3	2	5	41	22	16	4	2					11	7		14	242	U S MILITARY
36	1	2		4	27	13	7	4	2					5	4		6	141	ACADEMY N Y
27	8			6	10	20	12	5	1		2			16	10	1	26	233	U S NAVAL
17	5			4	5	11	6	4			1			12	9	1	16	146	ACADEMY MD
														1		1		1	UNITED THEOL
														1		1		1	SEMINARY OHIO
3			1	1		2				1			1	3		1	14	33	UPPER IOWA
1				1													2	3	UNIVERSITY

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
UPSALA	1920-66	22	2	2			12	5	3	6				14	1	4	6	1		2
COLLEGE N J	1960-66	9	1				5	3	2	3				3			2			1
UPSTATE MEDICAL	1920-66													1				1		
CENTER N Y	1960-66													1				1		
URSINUS	1920-66	47	3	7		2	37	16	1					23		2	12	4		5
COLLEGE PA	1960-66	13	1	1		1	11	9						7		1	6			
URSULINE	1920-66	1					1							1			1			
COLLEGE OHIO	1960-66																			
URSULINE	1920-66																			
COLLEGE KY	1960-66																			
UTAH STATE UNIV	1920-66	125	4	32	2	1	51	8	7	7	31		5	391	197	23	52	73	6	40
OF AG & AP SCI	1960-66	38	2	6	2	1	11	3	4	3	16		2	145	76	9	23	23	4	10
UTAH,	1920-66	487	30	78	8	16	159	27	30	51	169	31	43	202	11	24	35	70	4	58
UNIVERSITY OF	1960-66	209	16	32	7	15	37	12	17	24	100	23	24	76	5	12	13	26	2	18
VALDOSTA STATE	1920-66	1					1							3			1		1	1
COLLEGE GA	1960-66	1					1							2			1		1	
VALLEY CITY	1920-66	2					2	1						1	1					
STATE COLL N D	1960-66													1	1					
VALPARAISO	1920-66	53	5	12			23	4	4	1	12		5	24		2	9	7		6
UNIVERSITY IND	1960-66	25	4	2			8	3		1	10		3	8			4	3		1
VANDERCOOK COLL	1920-66																			
OF MUSIC ILL	1960-66																			
VANDERBILT	1920-66	158	12	26	2	3	64	20	10	11	45	22	8	37	2	6	10	12		7
UNIV TENN	1960-66	73	3	11	2	2	22	13	5	4	33	16	5	14		3	5	4		2
VASSAR	1920-66	64	13	14		1	33	7	2	4				69		9	25	17		18
COLLEGE N Y	1960-66	6	2				4	1	2					11		1	4	3		3
VENNARD	1920-66																			
COLLEGE IOWA	1960-66																			
VERMONT, U OF	1920-66	85	5	11		2	50	15	7	4	15	1	2	80	29	8	16	8		19
& ST AG COLL	1960-66	34	2	4		1	16	10	4	2	10		2	34	14	2	7	4		7
VILLA MADONNA	1920-66	18	1	10	1	7	7	2	3					3				1		2
COLLEGE KY	1960-66	13		9	1	7	4	2	1					2				1		1
VILLA MARIA	1920-66	1	1											3		1	1	1		
COLLEGE PA	1960-66	1	1																	
VILLANOVA	1920-66	84		10		2	41	6	11		33	15	5	20		5		8		7
UNIVERSITY PA	1960-66	45		6		2	18	4	10		21	12	2	7		1		5		1
VIRGINIA	1920-66	78	2	15		2	42	12	4		19		3	5	1	2	1	1		
MILITARY INST	1960-66	37	1	9		2	15	9	2		12		3	2		2				
VIRGINIA POLY-	1920-66	226	20	22	2	4	52	11	6	14	118	42	10	126	59	6	27	14	1	19
TECHNIC INST	1960-66	103	15	14	2	4	11	5	4	4	59	13	6	42	20	1	12	4		5
VIRGINIA	1920-66																			
SEM & COLLEGE	1960-66																			
VIRGINIA	1920-66	9		6		1	3	1						14	3		2	5		4
STATE COLLEGE	1960-66	5		3		1	2	1						8			2	3		3
VIRGINIA UNION	1920-66	6	1				5	3						5						5
UNIVERSITY	1960-66	1	1											1						1
VIRGINIA,	1920-66	227	20	55		5	102	13	14	27	23	5	1	78	7	9	14	13		35
UNIVERSITY OF	1960-66	55	4	14		5	15	7	4	9	13		1	19	3	2	2	5		7
VITERBO	1920-66	1					1	1												
COLLEGE WISC	1960-66																			
WABASH	1920-66	98	8	19	2	3	71	13	4					74	12	4	14	11	1	32
COLLEGE IND	1960-66	32	5	11	2	3	16	6	3					24	2		6	6	1	9
WAGNER COLLEGE	1920-66	20	2	2			16	7	2					23		1	9	8	1	4
N Y	1960-66	10	1				9	3	2					11		1	3	5		2
WAKE FOREST	1920-66	65	16	20	1	1	27	10	1	1	1			27	3	2	4	9		9
COLLEGE N C	1960-66	27	7	8	1	1	10	8	1	1	1			12	2	1	3	4		2
WALLA WALLA	1920-66	15	3	2	1		10		3					22	3		5	5		9
COLLEGE WASH	1960-66	8		2	1		6		3					10	1		4	2		3
WARNER PACIFIC	1920-66																			
COLLEGE OREG	1960-66																			

Doctorates by Field																					
SOCIAL SCIENCES						ARTS AND HUMANITIES								PROFESSIONAL FIELDS					TOTAL ALL FIELDS	Institution of Baccalaureate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION						
20	11		3	4	2	10	3		4		3			6	4	2	15		87	UPSALA
9	4		2	2	1	1					1			3	3		6		31	COLLEGE N J
																			1	UPSTATE MEDICAL
																			1	CENTER N Y
21	9	1		2	9	28	12	7	5		4			11		10	38		168	URSINUS
2		1			1	8	4	1	2		1			3		2	10		43	COLLEGE PA
1				1		3		2			1						2		8	URSULINE
						1					1						2		3	COLLEGE OHIO
1	1					4		2	1	1				1	1		1		7	URSULINE
						1		1											1	COLLEGE KY
140	28		23	62	23	39	9	14	1			13		21	7	4	137		853	UTAH STATE UNIV
40	5		6	20	8	16	5	7				2		9	4	1	69		317	OF AG & AP SCI
234	107	13	19	37	45	138	25	30	30	2	7	32	10	50	36	6	198		1309	UTAH,
102	55	5	4	15	17	56	10	10	9	2	4	18	3	26	21	3	96		565	UNIVERSITY OF
1	1					1	1							1			3		10	VALDOSTA STATE
														1			1		5	COLLEGE GA
10	2		1		1	6	4		1			1		1	1		36		56	VALLEY CITY
2					1	1			1					1	1		12		17	STATE COLL N D
22	14		1		2	24	10	8	1	2	1		2	8	4		32		163	VALPARAISO
10	5				1	10	2	4		2			2	2	2		9		64	UNIVERSITY IND
						1							1						1	VANDERCOOK COLL
																				OF MUSIC ILL
68	36	1	5	15	11	131	33	68	13	3	8	1	1	14	2	8	33		441	VANDERBILT
25	19			3	3	33	10	14	5		4			4		3	13		162	UNIV TENN
111	54	15	15	21	4	143	36	41	24	12	11		18	8	1	1	25		420	VASSAR
24	12	2	3	6	1	32	4	10	7		4		7	1		1	5		79	COLLEGE N Y
						1	1										1		2	VENNARD
						1	1												1	COLLEGE IOWA
45	16		2	19	7	47	15	5	11	6	3	5	1	9	3	2	50		316	VERMONT, U OF
16	8		1	3	4	18	4	2	6	1	1	3	1	3			14		119	& ST AG COLL
						5	2	2	1					1			2		29	VILLA MADONNA
						1	1										2		18	COLLEGE KY
2	2					1				1				1	1		3		11	VILLA MARIA
1	1					1				1							2		5	COLLEGE PA
11	3		2	5	1	40	13	7	5	4	10	1		3		2	17		175	VILLANOVA
6	3			2	1	17	5	5	1	1	4	1		1		1	12		88	UNIVERSITY PA
2				1	1	13	8	5						1	1		2		101	VIRGINIA
1					1	3	1	2						1	1				44	MILITARY INST
34	2		7	20	4	5	1	4						5	3	1	24		420	VIRGINIA POLY-
11	1		2	6	2	1		1						3	2		13		173	TECHNIC INST
						1			1										1	VIRGINIA
						1			1										1	SEM & COLLEGE
5		1	1	1	1	6	4					1	1	2			46		82	VIRGINIA
3			1		1	3	2						1	1			12		32	STATE COLLEGE
12	2		8	1		6	3				1	2		4		4	17		50	VIRGINIA UNION
1			1			1	1										3		7	UNIVERSITY
109	33	3	9	40	19	159	38	52	30	5	26	5	2	17	5	5	49		639	VIRGINIA,
26	7	3	1	8	5	38	12	10	9		4	1	2	5	3	1	21		164	UNIVERSITY OF
						2	1						1				3		6	VITERBO
						1							1				1		2	COLLEGE WISC
21	9	2		5	5	53	14	16	6		4	11		13	8	3	29		288	WABASH
10	5	1		1	3	12	5	1			2	4		6	5	1	13		97	COLLEGE IND
9	5		2		1	6	2	2	1		1			2		1	18		78	WAGNER COLLEGE
6	4				1	2			1		1			1			12		42	N Y
26	9		6	3	8	66	24	18	11	3	8	1	1	18	1	14	36		238	WAKE FOREST
10	2		2	1	5	25	7	7	4	1	4	1	1	5		4	21		100	COLLEGE N C
2	1			1		21	11	3	5			2		5	1	4	22		87	WALLA WALLA
						3		1	1			1		2	1	1	14		37	COLLEGE WASH
																	2		2	WARNER PACIFIC
																				COLLEGE OREG

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WARTBURG	1920-66	17	4				12	1	3	1				6			1	3		2
COLLEGE IOWA	1960-66	7	2				4	1	3	1				3				2		1
WARTBURG THEOL	1920-66																			
SEMINARY IOWA	1960-66																			
WASHBURN UNIV	1920-66	22	8	2			10	2	1	1	1			15	1	2	3			9
OF TOPEKA	1960-66	2	1				1		1											
WASHINGTON &	1920-66	72	23	15		2	29	2	3		5			21		1	8	5		7
JEFFERSON C PA	1960-66	15	7	2		2	5	2	1		1			11		1	6	2		2
WASHINGTON &	1920-66	50	3	9	1	2	30	3		7	1			14		4	4	1		5
LEE UNIV VA	1960-66	16	2	5	1	1	7	2		1	1			4			3	1		
WASHINGTON	1920-66																			
BIBLE COLL D C	1960-66																			
WASHINGTON	1920-66	19	2	1			16							8			4	3		1
COLLEGE MD	1960-66	2	1				1							3			2	1		
WASHINGTON	1920-66																			
STATE COLL ME	1960-66																			
WASHINGTON	1920-66	191	17	38	1	6	73	16	8	21	42	5	4	242	105	28	34	40		35
STATE UNIV	1960-66	69	7	13	1	6	22	7	4	8	19	1	2	79	35	10	12	13		9
WASHINGTON	1920-66	324	23	65	5	7	100	23	20	27	109	40	27	114	2	13	40	22		37
UNIVERSITY MD	1960-66	124	10	20	4	7	27	10	11	15	52	15	9	29		4	12	7		6
WASHINGTON,	1920-66	653	52	107	13	6	230	30	27	76	188	52	30	320	54	61	66	73	3	63
UNIV OF, WASH	1960-66	221	16	43	12	5	48	16	13	27	87	16	18	75	21	7	21	13	3	10
WAYLAND BAPTIST	1920-66	1					1													
COLLEGE TEX	1960-66																			
WAYNE STATE	1920-66	13	1	2			9	2	1		1			4			1	1		2
COLLEGE NEBR	1960-66	2	1								1			3			1			2
WAYNE STATE	1920-66	238	25	38	6	9	111	31	10	10	54	16	3	91	4	12	32	17		26
UNIV MICH	1960-66	97	13	22	5	9	26	9	3	5	31	9	3	29	3	1	8	7		10
WAYNESBURG	1920-66	15	1				9	4		4	1			24	8		3	6		7
COLLEGE PA	1960-66	8					4	4		3	1			12	5		1	6		
WEBB INST OF	1920-66	19	4	5							10									
NAVAL ARCH N Y	1960-66	5									5									
WEBSTER	1920-66	3	1				2							1			1			
COLLEGE MO	1960-66	2	1				1													
WELLESLEY	1920-66	49	17	13		1	16	3	1	3				94	2	9	28	21	1	33
COLLEGE MASS	1960-66	10	4	3		1	3	3						21		1	10	8		2
WELLS	1920-66	3	2				1	1						2				2		
COLLEGE N Y	1960-66													1				1		
WESLEYAN	1920-66	1					1							2			1			1
COLLEGE GA	1960-66													1						1
WESLEYAN	1920-66	155	14	46	4	3	79	12	12	14	2			77	1	8	26	18		24
UNIV CONN	1960-66	44	8	16	4	2	17	6	8	3				22		1	10	7		4
WEST CHESTER	1920-66	8	2	2			2	1		1	1		1	7	1		3	2		1
STATE COLL PA	1960-66	3	1				1	1			1		1	2			2			
WEST GEORGIA	1920-66																			
COLLEGE	1960-66																			
WEST LIBERTY	1920-66	4	1	1		1	2	2						6	1		5			
ST COLL W VA	1960-66	2		1		1	1	1						4	1		3			
WEST TEXAS	1920-66	27	8	4			13	2	6	2				10	4	2	2	1		1
STATE UNIV	1960-66	14	4				9		6	1				7	2	1	2	1		1
WEST VIRGINIA	1920-66	5	1				3	1			1	1		3			2			1
INST OF TECH	1960-66	3	1				1	1			1	1								
WEST VIRGINIA	1920-66	6					6	3						5			2	1		2
STATE COLLEGE	1960-66	3					3	3												
WEST VIRGINIA	1920-66	207	11	23	1	3	98	18	11	12	63	27	9	209	91	19	35	24		40
UNIVERSITY	1960-66	56	2	7	1	2	22	8	9	2	23	10	2	77	32	13	19	7		6
WEST VIRGINIA	1920-66	39	2	1		1	34	13	4		2	2		15	2	2	5	1		5
WESLEYAN COLL	1960-66	15		1		1	14	11	2					2				1		1
WESTERN CARO-	1920-66	4	1				3	1	1					8	2	1		1		4
LINA COLL N C	1960-66	4	1				3	1	1					7	2	1		1		3

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
2			2			18	4	2	5		2	4	1	9	1	8	11	63	WARTBURG
2			2			7	2				1	3	1	4	1	3	4	27	COLLEGE IOWA
																	1	1	WARTBURG THEOL SEMINARY IOWA
29	14		1	10	3	21	7	6	4			2	2	7	3	2	38	132	WASHBURN UNIV
9	6			2		6	4		2								12	29	OF TOPEKA
14	6			5	1	34	9	13	5	5		1		4	1	3	26	171	WASHINGTON &
3	2			1		10	2	7		1							3	42	JEFFERSON C PA
37	10	1	2	8	12	71	37	19	8	1	2	2	1	15	5	6	9	196	WASHINGTON &
13	3	1		4	4	16	11	2	1			2		6	1	4	1	56	LEE UNIV VA
																	1	1	WASHINGTON
																	1	1	BIBLE COLL D C
8	8					6	2	4						1		1	11	53	WASHINGTON
2	2					3	1	2									2	12	COLLEGE MD
																	2	2	WASHINGTON STATE COLL ME
87	26	4	19	25	11	44	9	10	11		1	9	4	12	8		93	669	WASHINGTON
31	9	3	6	7	5	20	6	4	2		1	6	1	4	3		37	240	STATE UNIV
175	90	5	21	29	16	130	22	37	29	8	10	11	11	32	18	6	77	852	WASHINGTON
54	27	2	7	13	1	40	4	9	9	1	4	6	7	16	13	2	34	297	UNIVERSITY MO
371	115	23	43	94	66	321	63	108	56	11	24	40	19	67	44	2	231	1963	WASHINGTON,
109	37	7	15	24	21	110	18	38	18	5	5	13	13	34	30	1	53	602	UNIV OF, WASH
3	2			1		3	1	2										7	WAYLAND BAPTIST
2	1			1		3	1	2										5	COLLEGE TEX
7	2			2	1	9	6		1			1	1	2		2	66	101	WAYNE STATE
						1							1				33	39	COLLEGE NEBR
187	96	2	36	22	14	175	40	38	32	2	12	34	13	20	8	5	243	954	WAYNE STATE
88	48	1	16	8	7	85	18	16	16		6	23	5	9	5	2	136	444	UNIV MICH
5			3	1	1	8	4	2				1					17	69	WAYNESBURG
						2	1					1					4	26	COLLEGE PA
1	1													1				21	WEBB INST OF
														1				6	NAVAL ARCH N Y
4	2		1		1	11	2	5			2		2				2	21	WEBSTER
3	2				1	6	1	1			2		2				1	12	COLLEGE MO
100	48	4	9	17	13	170	40	50	35	15	9	1	19	10		7	43	466	WELLESLEY
35	16	3	1	3	8	46	6	17	12	2	2		6	4		3	12	128	COLLEGE MASS
5	1	1	1		2	19	4	7	5	1	2						6	35	WELLS
4	1	1			2	1		1									1	7	COLLEGE N Y
3	3					11		8	3					1		1	6	24	WESLEYAN
1	1					3		2	1								2	7	COLLEGE GA
105	50	5	4	24	19	180	46	68	27	3	23	5	4	20	4	14	41	578	WESLEYAN
36	18	2	2	6	6	53	12	24	2	1	7	4	3	4	2	2	13	172	UNIV CONN
13	2		1	1	3	10	3	4					3				94	132	WEST CHESTER
5						4		2					2				46	60	STATE COLL PA
																	1	1	WEST GEORGIA
																	1	1	COLLEGE
3			1	1	1	6		2			1	2	1				6	25	WEST LIBERTY
3			1	1	1	4		2				2					2	15	ST COLL W VA
10	7			1	2	21	6	5	1		1	7	1	5	4		46	119	WEST TEXAS
2	2					6	2	1				3		2	1		17	48	STATE UNIV
2				2		1							1	1	1		6	18	WEST VIRGINIA
1				1										1	1		3	8	INST OF TECH
5	1		2	1	1	5	1	1	1			1	1	3	2	1	17	41	WEST VIRGINIA
2	1		1			1			1					1		1	5	12	STATE COLLEGE
67	27	1	7	17	13	69	16	22	9	1	2	12	6	14	11	1	92	658	WEST VIRGINIA
19	9		1	5	3	23	4	7	5	1		4	2	3	3		23	201	UNIVERSITY
8	6				2	8		4			1	3		3		3	19	92	WEST VIRGINIA
5	4				1	4		3				1		3		3	6	35	WESLEYAN COLL
1					1	1			1								25	39	WESTERN CARO-
																	15	26	LINA COLL N C

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WESTERN COLL	1920-66	7	2				5	1	2					6		1	1	2			2
FOR WOMEN OHIO	1960-66	1					1	1													
WESTERN ILL	1920-66	21	1	1			18	6	2	1				12	2		6	1			3
UNIVERSITY	1960-66	10	1				9	5	2					5	1		3				1
WESTERN KY	1920-66	45	5	11			27	3	4	1	1			36	14	3	6	8			5
STATE COLLEGE	1960-66	11	1	1			9	2	4					14	6	1	1	4			2
WESTERN MARY-	1920-66	21		9		3	10	4			2	1		25	1	2	7	4	1		10
LAND COLLEGE	1960-66	9		5		3	3	3			1			10			3	4	1		2
WESTERN MICH	1920-66	34	5	7			20	3	4		2	1		25	1	1	7	2	1		13
UNIVERSITY	1960-66	14	2	1			9	3	3		2	1		13			4	2	1		6
WESTERN MONTANA	1920-66	1					1		1					1			1				
COLLEGE	1960-66	1					1		1					1			1				
WESTERN NEW	1920-66	3	1				1			1				2				1			1
MEXICO UNIV	1960-66	1	1																		
WESTERN RESERVE	1920-66	147	14	21		2	104	19	20	5	3		1	102	2	12	33	27			28
UNIV OHIO	1960-66	51	5	4			36	13	17	4	2		1	31	1	3	13	8			6
WESTERN STATE	1920-66	14					14	2	4					8			4				4
COLL OF COLO	1960-66	5					5	2	2												
WESTERN WASH	1920-66	9	1				7		1	1				5			2				3
STATE COLLEGE	1960-66	5	1				3			1				5			2				3
WESTFIELD,	1920-66																				
ST COL AT,MASS	1960-66																				
WESTMAR	1920-66	8	2				6	2						6				2			4
COLLEGE IOWA	1960-66	1					1	1						4				1			3
WESTMINSTER	1920-66																				
CHOIR COLL N J	1960-66																				
WESTMINSTER	1920-66	32	6	4			21	5	4		1		1	15	1	1	6	2			5
COLLEGE PA	1960-66	10	3	1			6	2	3					3		1	1	1			
WESTMINSTER	1920-66	21	4	1			14	3	4	1	1			20	1	1	5	10			3
COLLEGE MO	1960-66	5					4	3	1		1			4		1		3			
WESTMINSTER	1920-66													1			1				
COLLEGE UTAH	1960-66																				
WESTMONT	1920-66	3	1				2	1						1				1			
COLLEGE CAL	1960-66	2					2	1						1				1			
WHEATON COLLEGE	1920-66	4					4	2	1					7		2		2			3
MASS	1960-66	3					3	2	1					2		1		1			
WHEATON COLLEGE	1920-66	80	6	10	2		48	8	5	16				45	4	1	14	7			19
ILLINOIS	1960-66	31	4	7	2		14	7	3	6				18	3		8	3			4
WHEELING	1920-66	4		2		2	2	1													
COLLEGE W VA	1960-66	4		2		2	2	1													
WHEELOCK	1920-66																				
COLLEGE MASS	1960-66																				
WHITMAN	1920-66	57	6	24		1	24	4	2	1	2		1	20		2	8	6			4
COLLEGE WASH	1960-66	10	2	3		1	5		1					6			2	3			1
WHITTIER	1920-66	29	3	3			22	4	4	1				22		1	6	5	1		9
COLLEGE CAL	1960-66	5	2	1			2	1						8		1		1	1		5
WHITWORTH	1920-66	8	2	1			5		1					8			3	3			2
COLLEGE WASH	1960-66	1		1										4			1	2			1
WICHITA STATE	1920-66	75	3	10	2	4	45	5	5	7	10	1	3	19		3	2	9			5
UNIVERSITY	1960-66	34	2	6	2	3	17	5	3	1	8		3	5		1		3			1
WILBERFORCE	1920-66	3	2				1	1						5	1		1	2			1
UNIV OHIO	1960-66													3			1	2			
WILEY	1920-66	5		1			4	2						2			1	1			
COLLEGE TEX	1960-66	1					1	1						1				1			
WILKES	1920-66	11					11	3	4					7			2	3			2
COLLEGE PA	1960-66	5					5	1	3					6			2	3			1
WILLAMETTE	1920-66	56	6	15	1	2	32	3	6		3		1	19	2	1	9	3			4
UNIV OREG	1960-66	18	1	6	1	2	9	1	5		2		1	9	1		4	1			3
WILLIAM CAREY	1920-66													1			1				
COLLEGE MISS	1960-66													1			1				

Doctorates by Field																				
SOCIAL SCIENCES						ARTS AND HUMANITIES								PROFESSIONAL FIELDS					TOTAL ALL FIELDS	Institution of Baccalaureate
PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION						
6	5		1			9	2	2	3	1		1						4	32	WESTERN COLL
3	2		1			1						1						2	7	FOR WOMEN OHIO
11	4			2	3	11	3	3				4	1	1	1			66	122	WESTERN ILL
5	2			1	1	2		1					1	1	1			33	56	UNIVERSITY
23	4			11	6	27	13	7	2	2			3	3	1			54	188	WESTERN KY
8	2			2	4	9	3	1	1	2			2	1				21	64	STATE COLLEGE
15	9	1	3	2		18	7	6	1			1	3	10	2	7		38	127	WESTERN MARY-
7	3	1	2	1		11	3	4	1				3	5	2	3		15	57	LAND COLLEGE
48	26		6	3	7	71	11	15	6	1	2	33	3	5	4			129	312	WESTERN MICH
21	15			1	3	31	7	6	3	1		12	2	2	2			67	148	UNIVERSITY
						1						1						8	11	WESTERN MONTANA
																		3	5	COLLEGE
1				1		4		1	1			2						16	26	WESTERN NEW
1				1														7	9	MEXICO UNIV
163	106	4	12	14	16	136	36	38	27	8	3	14	9	25	9	7		55	628	WESTERN RESERVE
58	33	2	4	3	8	42	12	12	7	1	1	7	2	8	6			21	211	UNIV OHIO
4	1				3	6	2	1				1	2					24	56	WESTERN STATE
1					1	2	1						1					11	19	COLL OF COLO
14	11				1	6	2	1				3						60	94	WESTERN WASH
6	6					1		1										37	54	STATE COLLEGE
1																		7	8	WESTFIELD,
1																		4	5	ST COL AT,MASS
7	3		1	2	1	6	1	1	1	1	1	1		4		4		14	45	WESTMAR
4	2		1	1		3	1	1				1		1		1		6	19	COLLEGE IOWA
						2							2					2	4	WESTMINSTER
						1							1					2	3	CHOIR COLL N J
20	9		4		6	24	3	10	2		1	7	1	6	2	4		32	129	WESTMINSTER
5	1		2		2	7	1	3				3		3	1	2		8	36	COLLEGE PA
15	5		4	3	3	16	6	6	4					4	1	3		14	90	WESTMINSTER
3	2			1		5	2	2	1					2	1	1		4	23	COLLEGE MO
3	1				2													1	5	WESTMINSTER
2					2													1	3	COLLEGE UTAH
3	1	2				10	2	5	1	2									17	WESTMONT
1	1					10	2	5	1	2									14	COLLEGE CAL
4	2		1			13	4	3	3	1	1		1	1		1		6	35	WHEATON COLLEGE
						2	1	1						1		1		1	9	MASS
26	8	5	5	3	4	91	24	19	17	14	8	4	2	51	1	48		61	354	WHEATON COLLEGE
18	6	5	3	1	2	44	9	7	11	5	5	3	1	18		16		38	167	ILLINOIS
						1	1												5	WHEELING
						1	1												5	COLLEGE W VA
																		5	5	WHEELOCK
																		2	2	COLLEGE MASS
27	10		2	9	6	34	6	14	2	4	3	3	1	6	3	2		31	175	WHITMAN
10	5		1	2	2	9	2	5			1	1		1	1			10	46	COLLEGE WASH
25	11	1	4	1	8	17	6	4	3			1	2	4		3		48	145	WHITTIER
12	4	1	2	1	4	6	1	1	3			1		2		1		25	58	COLLEGE CAL
10	9			1		5	1		2			1	1	5		4		13	49	WHITWORTH
6	6					4			2			1	1	3		2		9	27	COLLEGE WASH
39	22			6	11	45	10	12	4			13	6	5	5			46	229	WICHITA STATE
19	12			2	5	28	5	6	3			8	6	2	2			23	111	UNIVERSITY
6	1		4	1		7	1	4				1	1	4		3		14	39	WILBERFORCE
3			2	1		1	1											3	10	UNIV OHIO
						10	3	3	2				2	2		2		7	26	WILEY
						5	2		1				2					3	10	COLLEGE TEX
5	4					2	1	1										6	31	WILKES
5	4					2	1	1										6	24	COLLEGE PA
46	19	1	11	4	9	31	12	6	3		4	3	2	13		12		49	212	WILLAMETTE
19	8		6		5	8	5	2	1					4		4		15	73	UNIV OREG
						1		1										2	4	WILLIAM CAREY
						1		1										1	3	COLLEGE MISS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WM JENNINGS BRYAN COL TENN	1920-66													1							1
	1960-66													1							1
WILLIAM JEWELL COLLEGE MO	1920-66	51	2	11		1	35	11	3		3	1		13		2	2	5	1		3
	1960-66	12		5		1	7	6	1					7		2	1	3	1		
WILLIAM & MARY, COLLEGE OF, VA	1920-66	94	7	31		4	52	14	12		4	1	1	46	1	4	8	9	2		22
	1960-66	30	4	7		3	17	7	8		2	1		14		2	5	3	1		3
WM MITCHELL COL OF LAW MINN	1920-66																				
	1960-66																				
WILLIAM PENN COLLEGE IOWA	1920-66	12	2				9	1	2	1				6	1		1	1			3
	1960-66													1							1
WILLIAMS COLLEGE MASS	1920-66	163	10	42	4	6	67	11	13	30	14	1	4	31	1		11	7	2		10
	1960-66	59	3	19	2	5	17	4	8	12	8		4	17			9	4	2		2
WILLIMANTIC ST COLL CONN	1920-66																				
	1960-66																				
WILMINGTON COLLEGE OHIO	1920-66	10	1	2			6				1	1		21	3		3	9			6
	1960-66	2		1			1							8	1		1	5			1
WILSON COLLEGE PA	1920-66	12	3	1			8	3	2					17	1		3	4			9
	1960-66	4					4	2	2					5	1			4			
WINONA STATE COLLEGE MINN	1920-66	4	1	1			1	1		1				8	1		2	1	1		3
	1960-66	1	1											5	1		1	1	1		1
WINSTON-SALEM STATE COLL	1920-66																				
	1960-66																				
WINTHROP COLLEGE S C	1920-66	4	3				1		1					7			1				6
	1960-66													2			1				1
WISCONSIN CONSERVAT INC	1920-66	1					1	1													
	1960-66																				
WISC ST UNIV EAU CLAIRE	1920-66	8					7	3		1				3					1		2
	1960-66	4					4	3						3					1		2
WISC ST UNIV LA CROSSE	1920-66	5					5							7	1	1	2	2			1
	1960-66	4					4							5	1	1	2	1			
WISC ST UNIV OSHKOSH	1920-66	17		4			13	1	1					8			1	1			6
	1960-66	4					4	1						5			1				4
WISC ST UNIV PLATTEVILLE	1920-66	7					4	1	2		3			5	2		1		1		1
	1960-66	7					4	1	2		3			4	2				1		1
WISC ST UNIV RIVER FALLS	1920-66	20		3		1	15	3	6	1	1	1		29	21			2			6
	1960-66	10		1		1	8	1	3		1	1		18	15						3
WISC ST UNIV STEVENS PT	1920-66	10					10	2	2					9	3			2			4
	1960-66	8					8	2	2					7	2			2			3
WISC ST UNIV SUPERIOR	1920-66	11	4	1			6	2						13	2	1	3	2			5
	1960-66	3	1				2	2						5	1		2	1			1
WISC ST UNIV WHITEWATER	1920-66	4		1			2	1			1			7			1	3			3
	1960-66	1									1			3				1			2
WISCONSIN, UNIVERSITY OF	1920-66	1059	72	142	6	15	434	60	54	114	297	72	61	1015	259	123	222	204	9		198
	1960-66	345	35	48	6	11	84	26	26	47	131	31	22	241	80	31	49	42	9		30
WITTENBERG UNIV OHIO	1920-66	34	4	6			22	3	4	2				21	1	1	8	5			6
	1960-66	7		2			4	3	1	1				6			4	1			1
WOFFORD COLLEGE S C	1920-66	40	15	2			23	5	3					9	1	3	2	1			2
	1960-66	17	7				10	5	3					4	1	1	1				1
WOMANS MED COLLEGE OF PA	1920-66													3		3					
	1960-66																				
WOODBURY COLLEGE CAL	1920-66																				
	1960-66																				
WOODSTOCK COLLEGE MD	1920-66	10	1	7			2	1						2					1		1
	1960-66																				
WOOSTER, COLLEGE OF	1920-66	160	14	31		2	90	14	16	22	3	2		57	3	4	9	19			22
	1960-66	48	6	8		2	29	11	11	5				19	2	2	3	8			4
WORCESTER POLYTECH INST	1920-66	160	5	28	3	4	61	5	13	2	64	22	10	9			6	1			2
	1960-66	57	3	11	1	2	15	3	9		28	11	6								
WORCESTER STATE COLL AT	1920-66																				
	1960-66																				

Doctorates by Field																				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
1	1					4	1	1	1			1		2		2	2	10	WM JENNINGS
						2	1					1					2	5	BRYAN COL TENN
28	12		5	9	2	26	4	6	5	3	3	4	1	12		11	34	164	WILLIAM JEWELL
13	6		3	4		9	2	2	1		1	3		2		2	11	54	COLLEGE MO
56	31		5	8	10	63	21	16	11	1	7	1	5	16	6	6	63	338	WILLIAM & MARY,
29	18		2	3	6	19	10	3	1		3		2	5	2	2	23	120	COLLEGE OF, VA
						1	1							1			1	3	WM MITCHELL COL
														1			1	2	OF LAW MINN
10	2		3	4		19	6	4	1	1	1	3	3	2		2	12	61	WILLIAM PENN
2			1			2		1	1								2	7	COLLEGE IOWA
77	14	8	6	21	26	160	50	52	16	8	18	2	6	12	2	3	15	458	WILLIAMS
19	4	2		9	4	50	21	16	4	1	4	2	1	1		1	4	150	COLLEGE MASS
1	1																10	11	WILLIMANTIC
																	6	6	ST COLL CONN
2				2		5	2	1				2		3	1	2	21	62	WILMINGTON
1				1										1	1		10	22	COLLEGE OHIO
6	3	1		1		21	4	6	6	2	3			3		3	7	66	WILSON
3	1	1				3		1	2					1		1	4	20	COLLEGE PA
8	5		1		1	8	3	1		1		2	1				27	55	WINONA STATE
2	1		1														9	17	COLLEGE MINN
1	1																6	7	WINSTON-SALEM
																	3	3	STATE COLL
3	1					13	4	5	2	1		1		4			15	46	WINTHROP
1						3	1		1	1				2			5	13	COLLEGE S C
1	1					1							1					3	WISCONSIN
																			CONSERVAT INC
11	3			2	5	12	5	3				4		1		1	32	67	WISC ST UNIV
6	2			1	3	9	3	3				3					16	38	EAU CLAIRE
3					3	10	6	3				1		2	1		75	102	WISC ST UNIV
3					3	6	3	2				1		2	1		35	55	LA CROSSE
3	1		1			7	2	2				3		1			27	63	WISC ST UNIV
1						4	1	1				2					15	29	OSHKOSH
5				4		7	3	2			1	1		1			28	53	WISC ST UNIV
2				2		1	1							1			13	28	PLATTEVILLE
11	1		1	7	1	12	5	2				5					31	103	WISC ST UNIV
5			1	3	1	4		2				2					21	58	RIVER FALLS
10	3	1	4	1	1	6	2	2				2					37	72	WISC ST UNIV
3	1		1		1	5	1	2				2					17	40	STEVENS PT
8	3		1	3	1	5	2					3		3			27	67	WISC ST UNIV
5	2		1	1	1	2	1					1		2			8	25	SUPERIOR
4	1			2	1	6	2	3					1	10	10		64	95	WISC ST UNIV
						3		2					1	2	2		22	31	WHITEWATER
642	197	36	63	208	91	519	145	108	97	12	36	73	42	103	52	7	481	3819	WISCONSIN,
166	80	10	16	37	14	141	34	25	29	1	11	25	15	45	32	3	161	1099	UNIVERSITY OF
38	22	4	1	6	4	35	7	5	8	2	4	5	3	5		5	40	173	WITTENBERG
9	3			6		7	1	2	1			2	1	2		2	18	49	UNIV OHIO
17	6		4	3	4	45	9	27	7	1				10		8	35	156	WOFFORD
10	5		1	3	1	4		3	1					1		1	12	48	COLLEGE S C
																		3	WOMANS MED
																			COLLEGE OF PA
1				1														1	WOODBURY
1				1														1	COLLEGE CAL
15	4	2	2	6	1	38	5	7	1	10	14			6		6	3	74	WOODSTOCK
1				1		6	1	2			3			1		1	1	9	COLLEGE MD
56	17	3	7	15	10	116	44	34	9	5	9	7	6	22	1	17	57	468	WOOSTER,
20	9	1	4	1	3	30	12	6	3		1	4	4	6	1	5	18	141	COLLEGE OF
4	1			3										1	1		2	176	WORCESTER
1				1														58	POLYTECH INST
4	1		1		1	4	2	2									12	20	WORCESTER
2					1	1	1										9	12	STATE COLL AT

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WYOMING, UNIVERSITY OF	1920-66	84	7	13	2	1	28	7	7	24	12		3	97	39	4	11	10	3	30
	1960-66	37		8	2	1	14	7	4	7	8		3	38	21	2	3	3	2	7
XAVIER UNIV OHIO	1920-66	67	9	11		4	44	20	6	2	1			8			5	1		2
	1960-66	39	6	8		4	24	16	5		1			3			2			1
XAVIER UNIVERSITY LA	1920-66	6	1				5	3	2					8		2	4	1		1
	1960-66	5					5	3	2					4			2	1		1
YALE UNIVERSITY CONN	1920-66	796	71	194	13	19	267	57	38	78	186	47	46	188	14	27	65	22	4	56
	1960-66	260	31	79	12	16	40	17	18	33	77	16	16	52	5	6	23	7	3	8
YANKTON COLLEGE S D	1920-66	16	3				11		4		2			16	2	2	3	2		7
	1960-66	4	1				2		2		1			3	1		1			1
YESHIVA UNIVERSITY N Y	1920-66	70	28	14	2	2	27	12	6		1			10			6			4
	1960-66	49	20	12	1	2	16	7	6		1			2			1			1
YOUNGSTOWN UNIV, THE	1920-66	32	1	1		1	21	5	5		9		2	9			4	1		4
	1960-66	16		1		1	9	4	4		6		1	5			3	1		1
U.S. UNKNOWN AND DEFUNCT	1920-66	364	47	104	1	1	127	12	11	28	58	11	18	273	32	84	39	38	6	74
	1960-66	182	24	70	1	1	35	2	2	15	38	5	13	67	4	12	14	6	1	30
TOTAL U S	1920-66	66499	6783	12504	856	1508	27857	5848	3905	4482	14873	3173	2770	36979	6731	3841	8693	7972	421	9321
	1960-66	25699	2998	4869	745	1230	7894	3348	2253	1811	8127	1555	1673	12465	2531	1231	3394	2843	283	2183

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
41	13	1	4	17	6	18	6	8	1			2	1	8	5	1	64	312	WYOMING,
14	3	1		8	2	3		2				1		5	4		33	130	UNIVERSITY OF
18	5		2	7	4	34	5	9	5	9	5	1		12	4	5	16	155	XAVIER
9	3		1	3	2	16	3	4	3	5	1			6	3	2	7	80	UNIV OHIO
5			2	1	1	1			1								6	26	XAVIER
2					1	1			1								5	17	UNIVERSITY LA
368	110	34	55	71	86	695	202	208	119	37	60	6	57	90	34	38	107	2244	YALE UNIVERSITY
130	47	16	7	26	30	209	61	51	27	13	25	4	27	41	21	18	26	718	CONN
10	6			2	2	24	8	5				10	1	2	1	1	17	85	YANKTON
3	2			1		6	1	2				2	1	2	1	1	7	25	COLLEGE S D
48	34		7	3	3	50	22	6	7	7	7			36		35	34	248	YESHIVA
28	22		2	2	1	26	13	3	2	4	3			12		11	16	133	UNIVERSITY N Y
7	5		1	1		11	5	2	1		1	1	1	1		1	16	76	YOUNGSTOWN
3	1		1	1		8	3	2	1		1		1				11	43	UNIV, THE
344	90	13	53	97	72	525	135	105	120	33	88	17	21	304	47	100	406	2216	U.S. UNKNOWN
136	30	7	12	31	48	230	58	43	62	7	38	6	14	98	16	34	110	823	AND DEFUNCT
346841	14955	1428	3836	7850	4945	34598	9459	9570	5640	1497	3016	2796	2132	8082	2729	3447	36245	217087	TOTAL U S
13126	6119	543	1259	2623	1866	12006	3087	3404	1774	376	964	1297	1027	3084	1434	1050	14598	80978	

Note: See Appendix G for listing of doctoral fields of United States doctorate recipients from foreign baccalaureate institutions.

APPENDIX C

Forty Leading Doctorate-Granting Institutions and Their Three Hundred Leading Baccalaureate Sources, FY 1958 - 1966

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
ABILENE CHRISTIAN COLL TEX	272	2		1		1	2					3	3	1	1	3						
AKRON, UNIVERSITY OF	204		1			2		2	1			4	7		1	2		1		1		
ALABAMA, UNIVERSITY OF	76		4	1		1	1	7	8	2	10	3	6	5	3	1	4	3	3		2	
ALBANY, SUNY AT	136							21	4	8			2	7	7		2		1		4	3
ALBION COLLEGE MICH	284	1	1	1		2	3	1			1		3	3	2	3				14	15	
ALFRED UNIVERSITY N Y	225		4			1		2		3	1		2	4	1				1	9	1	
ALLEGHENY COLLEGE PA	211	2	2		1	1	2	1	4	3	1	1	1	6	2	1	1	1		3	2	5
AMHERST COLLEGE MASS	78	1	13			5	1	2	17	9	5	1	44	7	1		4	6	1	25		12
ANTIOCH COLLEGE OHIO	129	3	3	1		10	1	4	9	4			13	2	2		4	4		4	3	10
ARIZONA STATE UNIVERSITY	168	3	2	8			5	2			2	2	1	1	3	3	2			1	3	4
ARIZONA, UNIVERSITY OF	88	1	16	4		1	5	1	8	3	2	1	6	8	2	2	5	2		2	2	6
ARKANSAS, UNIVERSITY OF	71		7			3		1	1	4	2	2	2	17		1	4	2	3	3	5	3
AUBURN UNIVERSITY ALA	87		1	1				5	1	5	4	15	1	16	1	6	1	2	1	2	3	2
AUGUSTANA COLLEGE ILL	202	2	3			7	3	3		1		1	3	12	3	1	20	1				2
BALDWIN-WALLACE COLLEGE OHIO	294	3							2				3	5	1		1	1			1	2
BALL STATE UNIVERSITY IND	191		2			1	2	4				1	1	7	37		5				4	4
BARNARD COLLEGE N Y	124	2	6	1	1	3		9	59	2		1	13		1			4	4	1	1	4
BATES COLLEGE ME	207	8		1		1			6	6	1	1	7	2	2	1	5		1	1		1
BAYLOR UNIVERSITY TEX	97	3	1	1	1		2	4	1	1	7	1	9	3	7		3	3	1	1		3
BELOIT COLLEGE WISC	227					5		1			1		3	11	1	2	4	2	1			2
BEREA COLLEGE KY	187	1	1	3		3	1	2	2	1	1	3	1	5	3	2			1	1	6	
BIRMINGHAM-SOUTHERN COLL	232	2	1					1		1	3	2		1	1		1	2	1			
BOSTON COLLEGE	104	27		1	16			1	1	3		1	28	4	3		2	4	2	11	1	2
BOSTON UNIVERSITY	46	139	4	7	1	9	1	11	10	4	4	1	40	4	5		5	1	7	2	3	6
BOWDOIN COLLEGE ME	185	3	3		2	1		2	11				15	3	1		3	1	2	7		
BOWLING GREEN ST UNIV OHIO	151		2	1		1		3	2	2			6	4	8		4		2		15	6
BRADLEY UNIVERSITY ILL	209	1		4		1	1	2			1	1	1	13	9	3	4				5	1
BRANDEIS UNIV MASS	251	2	1			1			2	1			16					5		2		3
BRIGHAM YOUNG UNIV UTAH	35	1	23	12		3	8	2	5	9			11	24	13	7	5	1	3	4	6	9
BROOKLYN COLLEGE	9	7	14	9	3	15	1	52	114	14	9	5	31	13	12	4	9	11	14	6	10	21
BROWN UNIVERSITY R I	63	8	16	5	1	5	3	3	9	13	4		22	12	2	3	1	8	6	13		5
BRYN MAWR COLLEGE PA	214		3	1	1		1		8	3			10		2			1		2		3
BUCKNELL UNIVERSITY PA	191		1	1	2	1		2	1	4		1	6	2	3	2		1		3		8
BUFFALO, SUNY AT	82	2	3	6	1	7		4	6	8	3	1	6	5	5			2	1	1	5	3
BUTLER UNIVERSITY IND	218	1			1	2	1			2		1	2	4	29	1	4	1			2	1
CALIFORNIA INST OF TECHNOLOGY	42	1	44	40		6	9		6	13	3		29	6				5	3	12		1
CALIF ST COLL AT LOS ANGELES	264		3	14										1	2		4	1				
CALIF STATE POLYTECH COLL	272	1	2	3						5		2		4		4	1				2	
CALIF, UNIV OF, BERKELEY	1	1	869	77	1	15	15	8	27	20	3	5	63	34	6	7	7	6	4	36	9	24
CALIF, UNIV OF, DAVIS	135		17	3		1				15		4		3		1	1		1	1	4	

Doctorate Institutions Granting Doctorates FY 1958 - 1966

MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS-THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	Baccalaureate Source Institution
					1		2	2						14					38	74	ABILENE CHRISTIAN COLL TEX
1			1	11	2	3	2	1	5		3					3	4		46	104	AKRON, UNIVERSITY OF
3		4	8	5	7	2	3		5	4		3	1	8	2	6	3		154	282	ALABAMA, UNIVERSITY OF
2		14	1		2	3	3	1	1	2	1		18	2		9	3		48	169	ALBANY, SUNY AT
1				1					2							5	1		12	72	ALBION COLLEGE MICH
		1	1	1	3	9		1	1	2	1		6	2	1				33	91	ALFRED UNIVERSITY N Y
1		2				3	2	12	1	3	2	1	2	1			1	3	25	99	ALLEGHENY COLLEGE PA
2		2	1	6		3	3	1	12	4	3	3	12	1		5	5	15	39	271	AMHERST COLLEGE MASS
6		3	2	7	14	2	2	1	2	3		2	8		1		8	7	36	181	ANTIOCH COLLEGE OHIO
	1		1	1	2	2	3	1	1	2		7	5		2	1	4	3	56	134	ARIZONA STATE UNIVERSITY
2			3	3	6	1			1	8	1	8	10		8	1	7		112	248	ARIZONA, UNIVERSITY OF
3	13		2		8	5	1		2	21	4		2		10	1	10	1	164	307	ARKANSAS, UNIVERSITY OF
1	4	2	9		10	1				4			3	1	1		5		145	253	AUBURN UNIVERSITY ALA
5	1			4		1				1		1	1				14	2	14	106	AUGUSTANA COLLEGE ILL
	1		1	1	7	1		2				3					3	1	30	69	BALDWIN-WALLACE COLLEGE OHIO
2					2	3				7		1	2	1			2		26	114	BALL STATE UNIVERSITY IND
4		19				1	3		1		1	1	1	1			4	15	21	184	BARNARD COLLEGE N Y
		3		3	2				3	3	2			2				4	35	101	BATES COLLEGE ME
2	3	1	3		2		2	1	1	1		2	4		38	3	4	7	104	230	BAYLOR UNIVERSITY TEX
3			1	4	2	1				1			2	2		2	12	3	24	90	BELOIT COLLEGE WISC
1		2	2		3	3	2	1	1	3		1	1	1	1	1	4	1	53	118	BEREA COLLEGE KY
		2	5	4	1	1	1	1		1							1	1	54	88	BIRMINGHAM-SOUTHERN COLL
1	2	1	2			2	3	1	2	4	1			2			11	1	81	221	BOSTON COLLEGE
5		9	3	2	3	2		7	3	4	5		2	4	3	1	5	6	81	409	BOSTON UNIVERSITY
1			4	3	1	2	4		6		1		4	3		1	2	8	26	120	BOWDOIN COLLEGE ME
3	4			3	29	1				3		1		3		1	5	2	41	152	BOWLING GREEN ST UNIV OHIO
		2		2	5	1	1			3		2	1		1		5		30	100	BRADLEY UNIVERSITY ILL
		3			1		1	1	5		1		2				3	4	26	80	BRANDEIS UNIV MASS
12	2	1	1	6	13	10	1	2	5	16		19	18	4	9	12	9		216	502	BRIGHAM YOUNG UNIV UTAH
14	1	272	4	9	18	19	40	12	11	31	36	8	9	14	6	6	28	31	290	1233	BROOKLYN COLLEGE
4		5	1	8	1	4	3	2	9		5	1	7		1	5	9	29	116	349	BROWN UNIVERSITY R I
		4				1	11						3	1			2	13	27	97	BRYN MAWR COLLEGE PA
	1	3		1	2	13	7	2	4	2	7		2	1			1	2	28	114	BUCKNELL UNIVERSITY PA
5	1	1		3	7	7	1	2	2	4	1		2	12		1	5	3	133	259	BUFFALO, SUNY AT
1	1			1	2	1	1			8					1	1	4	2	19	94	BUTLER UNIVERSITY IND
6		3		3	2	4			13	3		14	43	1	1	6	9	12	129	427	CALIFORNIA INST OF TECHNOLOGY
		1			1					1		30	1	1		2			14	76	CALIF ST COLL AT LOS ANGELES
1					3					7	3	4	1				4		27	74	CALIF STATE POLYTECH COLL
19	2	9	3	13	7	3	7	4	17	10	3	60	96	4	8	46	30	10	249	1837	CALIF, UNIV OF, BERKELEY
2	1				2	1				3	1	1	1		1	1	4		102	171	CALIF, UNIV OF, DAVIS

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
CALIF, UNIV OF, LOS ANGELES	10	4	73	595	1	14	8	10	14	7	3	2	26	10	11	3	6	4	2	5	2	17
CALIF, UNIV OF, RIVERSIDE	235		6	9						3			1	1	1		1			1		1
CALIF, UNIV OF, SANTA BARBARA	166		11	23		1		1	3	1	2		2	5		1	2			2	1	4
CALVIN COLLEGE MICH	134		3			7	3	4		1			3	10		4	4				36	31
CARLETON COLLEGE MINN	123	2	5			9	4	2	7	7			8	14	2	5	5	2	1	4	1	4
CARNEGIE INST OF TECH PA	43		14	3	3			1	4	9		1	12	13	1	2	3	2	7	14	1	7
CASE INSTITUTE OF TECH OHIO	83		11	1		4			2	4		4	4	12		1	1			9		15
CATHOLIC UNIV OF AMERICA D C	114	1	1		104	1	1	1	2			1	3					4	5	1		1
CENTRAL MICHIGAN UNIV	216		1				2	2					1		3		2		1		28	17
CENT MISSOURI STATE COLLEGE	225		1		1		2					1		4	6	1	4				1	
CHICAGO, UNIVERSITY OF	13	3	53	19	2	480	5	7	38	11	5		54	37	8	5	7	9	6	15	7	19
CINCINNATI, UNIVERSITY OF	70	2	3	2		3	1	7	5	5	3	5	3	8	6		1	3		7	3	7
CITY COLLEGE OF CITY U OF N Y	2	11	32	17	6	22	5	72	208	35	15	5	51	17	15	5	6	11	24	37	16	37
CLARK UNIV MASS	239	8	1			1	1				1	2	6	1	1		1			2	1	2
CLEMSON UNIVERSITY S C	178							1			5	6		3	2	5			3		4	1
COLGATE UNIVERSITY N Y	190	3			3	4		1	7	4	3	1	10		2		1	4		2	1	6
COLORADO COLLEGE	291		1	2			6		2				4	3	2	3		1		1		
COLORADO SCHOOL OF MINES	298		8	1		1	2		1	3			2	1		2				5		2
COLORADO STATE COLLEGE	143	1	4	3	1		14	7						5	3	4	13					1
COLORADO STATE UNIVERSITY	79		11	1		1	10			13	2			15	2	14		1		2	10	6
COLORADO, UNIVERSITY OF	38	1	17	14	1	9	124	7	4	12	5	1	19	9	10	8	7	1	3	4	5	11
COLUMBIA UNIV TEACH COLL N Y	247	1						45	2	1		2	2	2	1					1	2	1
COLUMBIA UNIVERSITY N Y	14	6	18	17	1	13	4	31	348	18	1	6	51	15	13	1	8	14	11	20	1	23
CONCORDIA COLLEGE MINN	230	1		1		3	3	1					1	4	3	4	2	1	1			1
CONNECTICUT, UNIVERSITY OF	65	4	7	3		1	2	4	9	10	2	3	7	15	3	6	2		12	2	5	10
COOPER UNION N Y	147	1	6	2					14	3		3	3	8		1		3		10		6
CORNELL COLLEGE IOWA	251	3	1	1		4	4	3	2	1			1	2	1	1	17				1	1
CORNELL UNIVERSITY N Y	12	4	43	5		18	3	12	47	238	2	8	85	31	5	11	4	11	10	49	17	48
DARTMOUTH COLLEGE N H	47	11	11	1		10	3	4	26	10	6		40	8	7	2	2	8	1	9	1	16
DAVIDSON COLLEGE N C	176	2		1		2		3	2		19	2	4					1	1	1		
DAYTON, UNIVERSITY OF	179		2	2	7	1				1		1		7	3	7			1	1	4	3
DELAWARE, UNIVERSITY OF	163	2	4		2	3		1	2	2	2	1	4	5	1				4	4	2	1
DENISON UNIV OHIO	201		1			3		2	1				2	4	3	3	1	1	1		2	3
DENVER, UNIVERSITY OF	94	3	13	4		2	17	10	5	2		3	5	5	8		2		1		4	6
DEPAUL UNIVERSITY ILL	195			1	1	9	1	1					1	5	5		1		1		6	5
DEPAUW UNIVERSITY IND	115	4	3	1		6	2		1	5			8	15	28	1	5			1	6	7
DETROIT, UNIVERSITY OF	157			2	1	4		1		2				2	1	6	3		1	1	13	28
DRAKE UNIV IOWA	209	1		2		2	1	5					2	4	4	2	14		1		1	
DREXEL INST OF TECHNOLOGY PA	176	1	4		2				3	2	1			5	1			1	1	3	3	1
DUKE UNIVERSITY N CAR	64	1	4	3	1	4	1	3	10	7	54	9	18	9	4			5	4	6	2	6

Doctorate Institutions Granting Doctorates FY 1958 - 1966

MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS-THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	Baccalaureate Source Institution
8	2	8	3	6	5	3	5	3	11	3	2	153	32	1	9	20	6	12	118	1227	CALIF, UNIV OF, LOS ANGELES
	2			3					2				4		2	4	1	3	42	87	CALIF, UNIV OF, RIVERSIDE
		2		1					3	1		20	7		3	4	3	2	30	135	CALIF, UNIV OF, SANTA BARBARA
2				9	3		1			9		1	1			1	3	4	32	172	CALVIN COLLEGE MICH
9	2	1	1	5	2	1	1		3	5	2	2	8		1	3	12	14	31	185	CARLETON COLLEGE MINN
6	1	8	2	3	6	3	3	27	7	1	1	2	14	2		2	2		237	424	CARNEGIE INST OF TECH PA
1			1	3	15	1		4	3	10		1	7	1		2	5	4	132	258	CASE INSTITUTE OF TECH OHIO
1		4	2		1	1	7	2	3	1		2	3	1	1		2	5	41	203	CATHOLIC UNIV OF AMERICA D C
1					4	3	2						1	1			2		25	96	CENTRAL MICHIGAN UNIV
	24				2	1				1		2			1		4		35	91	CENT MISSOURI STATE COLLEGE
15	2	17	4	25	4	1	8	3	13	4	3	6	17	3	5	8	15	26	138	1107	CHICAGO, UNIVERSITY OF
1		4		2	26	6	1	11	1	9	1	2	2	3	1	3	12	4	148	311	CINCINNATI, UNIVERSITY OF
13	1	356	4	12	21	36	20	13	30	27	47	12	21	23	10	5	32	33	463	1826	CITY COLLEGE OF CITY U OF N Y
		3		1		1	1		3	1	1				3		2	3	38	85	CLARK UNIV MASS
	1	1	3		1	1	1			3	2				1		3	2	77	126	CLEMSON UNIVERSITY S C
1	1	5	2	1			3	1	4		4		1	3	1		2	4	30	115	COLGATE UNIVERSITY N Y
						2	2		2			2	4	2	1	1	2	3	24	70	COLORADO COLLEGE
1						2			2				3		1	1			30	68	COLORADO SCHOOL OF MINES
2	2	2			2	1				4		6	4	1		1	2	1	79	163	COLORADO STATE COLLEGE
6	3			1	6	3				9	4	1	3			3	9	1	133	270	COLORADO STATE UNIVERSITY
6	4	3	3	5	7	2	4		8	6		11	29	1	6	16	4	9	91	487	COLORADO, UNIVERSITY OF
1		9		1	1						2	2							6	82	COLUMBIA UNIV TEACH COLL N Y
8	1	47	2	4	11	6	9	5	35	11	18	5	10	3		5	33	39	140	1012	COLUMBIA UNIVERSITY N Y
10	2	1		1		2				3			1			1	2		40	89	CONCORDIA COLLEGE MINN
7	2	9	3	4	7	7	9	4	4	5	7		3	3		3	13	14	127	338	CONNECTICUT, UNIVERSITY OF
		23		5	1		2	4	3	3				3		1		2	49	156	COOPER UNION N Y
5	1			4	2				1	2		2					5	1	14	80	CORNELL COLLEGE IOWA
21	1	29	6	3	10	17	20	5	26	37	16	4	36	7	4	11	48	34	183	1169	CORNELL UNIVERSITY N Y
8	1	9	5	4	7	4	4	3	20	2	8	2	23	5	1	11	15	22	69	399	DARTMOUTH COLLEGE N H
	1	1	24	1	2		1		7	3					3			7	39	127	DAVIDSON COLLEGE N C
			1	1	22	1				11			2		1		1		44	124	DAYTON, UNIVERSITY OF
8		2	3	1	5	4	7	1	4	4	4	1	1	1	2		4	3	43	138	DELAWARE, UNIVERSITY OF
2	1	2	1	5	16		3	2	5	2	1	1	3	1		2	6		27	107	DENISON UNIV OHIO
2	1	1		3	3	3	1	1	1	1		5	6	4	7	4	5	2	94	234	DENVER, UNIVERSITY OF
1				17						2		1					6		46	110	DEPAUL UNIVERSITY ILL
2	5		2	7	4	2	3	1	3	14		1	2	1	1	3	11	8	38	201	DEPAUW UNIVERSITY IND
			1	10	2	2	1	1		4		2	1		1		4	3	46	143	DETROIT, UNIVERSITY OF
2	3	2	4	1	1		2	1		1		1			1	2	1	1	38	100	DRAKE UNIV IOWA
		1		1	1	8	27	4	10	1	1		3	1		2			39	127	DREXEL INST OF TECHNOLOGY PA
3		6	24	7	4	2	5	2	12	7	4	3	8	2	2	1	6	13	78	340	DUKE UNIVERSITY N CAR

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
DUQUESNE UNIVERSITY PA	204			5		1	2	1				1	1				1	1	1	2	4	
EARLHAM COLLEGE IND	242		1	1	3			1	2	1	1	5	3	5				1		3	4	
EAST TEXAS STATE UNIV	264						2				1			3		1		1				
EASTERN ILL UNIVERSITY	211				1					1	1	1	28	4		8				2	2	
EASTERN MICHIGAN UNIV	221			1		1	2	1				1	3		2					22	30	
EMORY UNIVERSITY GA	109	6	3	2	4	1	1	4	2	11	12	7	6	8		1	5	1		1	1	
FLORIDA STATE UNIVERSITY	111		1	3		1	11			7	11	2	5	6	1	3	2		1	2	5	
FLORIDA, UNIVERSITY OF	39	1	7	4	1	4	2	7	1	6	9	185	9	12	7	4	1	3	7	2	6	8
FORDHAM UNIVERSITY N Y	68			1	8	4		10	24	9	1	1	9	2	3	5	1	6	5	2	3	2
FRANKLIN & MARSHALL COLL PA	169		2			1		1	1	3	2		5	2	1			3	3	3	6	1
FRESNO STATE COLLEGE CAL	197		17	9		1		3					1	1				1	1			
FURMAN UNIVERSITY S C	279					1		3			9	3	1				1					
GEO PEABODY COL FOR TEACH TENN	279					1		3		1		4	1	1	1		1				3	1
GEO WASHINGTON UNIVERSITY D C	85	3	5	2	8	9	1	1	5	4	2	4	7	3	4			4	11	1	1	3
GEORGETOWN UNIVERSITY D C	197		3	1	4	3			6		1	1	7		1			1	4	3		2
GEORGIA INST OF TECHNOLOGY	91		5	1		1	1		2	1	4	7	5	6	1	3		2		20	1	2
GEORGIA, UNIVERSITY OF	75	1				4		6	4	8	3	15	4	10	4	7	1	3	3		8	3
GETTYSBURG COLLEGE PA	223		1			3	1				2		3	1		2		2	2		1	2
GONZAGA UNIV WASH	284		2	2	1		1		3				1					2				
GRINNELL COLLEGE IOWA	166	1	2	3		6	4	2	2	4	2	1	6	2	2	3	13		1	4	3	3
HAMILTON COLLEGE N Y	239					1		1	7	4			4	1	3			1	1			
HARVARD UNIV MASS	4	38	91	11	3	54	6	7	103	24	10	2	494	14	10	2	4	13	5	54	3	35
HAVERFORD COLLEGE PA	146	1	7	3		5	1	1	5	7	1		15				1	1	1	6	1	7
HAWAII, UNIVERSITY OF	180	1	3	2		2	1	3	3	3			5	6	1	9	2	1		1	3	4
HOFSTRA UNIVERSITY N Y	227		1			1	1	5	9	1		3	3		1	1		2			1	
HOLY CROSS, COL OF THE, MASS	183	2	2	1	3	1		2	2	1	1	1	8	1		3		3		5	1	2
HOPE COLLEGE MICH	223		2				1		2	1			1	9	2		3	1		1	16	19
HOUSTON, UNIVERSITY OF	193	1	1	1		2	1	2		1			2	2	1	1						2
HOWARD UNIVERSITY D C	258	2			3	2	1	3	1				2		1		1		2			1
HUNTER COLLEGE N Y	61		7	2	3	8	3	28	55	6	2	1	10	6	2		1	3	3		2	3
IDAHO, UNIVERSITY OF	106	2	17	1			1	1	2	4	1	1		14	2	6	3		1	2	8	8
ILLINOIS INST OF TECHNOLOGY	92		6	3	1	9	1		3	1		1	6	14		2	1	3	2	6	5	4
ILLINOIS STATE UNIV, NORMAL	162	1	1	3	1	1		5			1	1		35	6		7				6	2
ILLINOIS, UNIVERSITY OF	3	4	59	16	3	39	11	8	12	42	2	6	22	598	32	25	26	4	8	33	38	32
INDIANA STATE COLLEGE PA	287					1	1	2		2					1		1	1	2			1
INDIANA STATE UNIVERSITY	169					1	2	3				2		10	48		1	1			5	4
INDIANA UNIVERSITY	35	3	10	5		7	6	5	8	2		4	6	17	225	1	5	7	3	2	10	13
IOWA, STATE COLLEGE OF	133			2	1	1	5	8						4	8	10	53		1		5	3
IOWA STATE UNIV OF SCI & TECH	23		12	4	1	6	4	1	4	16	7	2	6	15	5	269	23	2	4	12	24	4
IOWA, UNIVERSITY OF	34	2	4	6	1	3	5	5	9	1	1		13	19	4	15	239	1	1	1	3	11

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Baccalaureate Source Institution	MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL
DUQUESNE UNIVERSITY PA	1			1	6	7	1	34		2	1						3			28	104
EARLHAM COLLEGE IND	2	1		1		3	3	4	4	1	4			2	1		3	2		22	84
EAST TEXAS STATE UNIV		3					1		1		1		1		1	19				41	76
EASTERN ILL UNIVERSITY	2	2	1	1	4	8	1				4		1				2			25	99
EASTERN MICHIGAN UNIV		2				2	1	1						2	1	1		1		19	93
EMORY UNIVERSITY GA	1			15		3	2	1	1	2	2		1	1		3	1	4	6	89	208
FLORIDA STATE UNIVERSITY			2	7	2	5	2	2		1	3		1	2	3	3	2	2	2	106	206
FLORIDA, UNIVERSITY OF	1	2	3	12	2	13	4		5	3	5	1	2	3		5	1	10	2	112	472
FORDHAM UNIVERSITY N Y	4		34	4	3	9	1	1		9	11	8	1		4	1	1	2	5	126	320
FRANKLIN & MARSHALL COLL PA	2	1	4	2	10	2	9	9	1	8		3	2			1		4	3	37	132
FRESNO STATE COLLEGE CAL	1	1			1			1			1		11	11			8			39	108
FURMAN UNIVERSITY S C				11		2		1			1	1				1		1		37	73
GEO PEABODY COL FOR TEACH TENN		2	1	1	1	2					1					1	1	2		44	73
GEO WASHINGTON UNIVERSITY D C	4		8	6	2	11	6	8	1	9	1	1	1	4			1	7	7	99	254
GEORGETOWN UNIVERSITY D C	2		5	1			3	3	1	3			1		1	2		1	4	44	108
GEORGIA INST OF TECHNOLOGY	2		1	4		5	3	4		2	4			5		4		2		148	246
GEORGIA, UNIVERSITY OF	5	2	2	7	1	8	2	2	2		3	1	1			4		7	3	158	292
GETTYSBURG COLLEGE PA			1			2	12	9	2	2	1	5			1		2	1	3	31	92
GONZAGA UNIV WASH	1			2	2	2			1	1	3		1				9	4	1	33	72
GRINNELL COLLEGE IOWA	8	1		1	9		1	1			7		1	2		2	2	3	1	32	135
HAMILTON COLLEGE N Y	1		7		1		1	3		6					5	2		1	5	30	85
HARVARD UNIV MASS	12		20	7	9	5	4	31		62	3	1	4	46	4	6	7	31	57	140	1432
HAVERFORD COLLEGE PA	1		2	2	1	2	2	15	1	11	1	2	1		1	1	6		14	33	159
HAWAII, UNIVERSITY OF	5		3	1	5	2	2				6		2	4			5	8	1	29	123
HOFSTRA UNIVERSITY N Y			13			1	4	2			2	4	1		1			1	1	31	90
HOLY CROSS, COL OF THE, MASS	2	1	5	1		4		2	1	5	3	1			2			3	10	42	121
HOPE COLLEGE MICH	1		2		1				1		2	2			1	1		3		20	92
HOUSTON, UNIVERSITY OF	1					1				1						19		2		70	111
HOWARD UNIVERSITY D C			7		3		3	4	2				1	2	2	1				34	78
HUNTER COLLEGE N Y	2		94	1	3	2	3	7			4	9	3	1	1	2	1	3	10	65	356
IDAHO, UNIVERSITY OF	6	2		1	3			1		1	5		3	8		1	16	6	2	89	218
ILLINOIS INST OF TECHNOLOGY	2		1	1	19	3	1	2		1	8		1	6				12	1	114	240
ILLINOIS STATE UNIV, NORMAL	1	4	3	1	8				1		3		1	2	2	1	1	6		36	140
ILLINOIS, UNIVERSITY OF	43	12	9		44	18	15	11	6	14	54	8	12	23	2	6	17	70	5	220	1609
INDIANA STATE COLLEGE PA	2		3		2	2	15	1	22				1		1			2		8	71
INDIANA STATE UNIVERSITY	1	2	1		1	4	3				11		3				1	3	1	24	132
INDIANA UNIVERSITY	4	3	4	3	2	13	5	3	1	9	17	1	6	3	1	2	6	10	12	58	507
IOWA, STATE COLLEGE OF	4	1	2	1	2	4	1				2		1	4	1	1		4		48	177
IOWA STATE UNIV OF SCI & TECH	27	9	1	1	4	10	7		1	2	41	1	5	5	2	3	5	25	5	103	678
IOWA, UNIVERSITY OF	14	5	4	2	9	3	3	5	3	2	9		5	9	4	4	4	7	1	77	514

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
JOHN CARROLL UNIV OHIO	287			1	2				2				2					3	4			
JOHNS HOPKINS UNIVERSITY MD	67		5	1	3	4	2	3	7	4	4	12	2	2		2	126	22	4		1	
JUNIATA COLLEGE PA	294	1				1		2		2	1	2	2					2	2	2		
KALAMAZOO COLLEGE MICH	262		3	3		2	1			2	1	6	6	2		2				1	2	
KANSAS, UNIVERSITY OF	41	2	21	4		6	9	3	3	4		16	22	8	3	12	1		8	4	8	
KANS STATE COLL PITTSBURG	193			2			1	1			2		2	4	2	2		1		5	19	
KANSAS ST TCHRS COLL EMPORIA	163	1		2				1		1			5	7		5				1		
KANSAS ST UNIV OF AG & AP SCI	50	1	7	3		4	3	3	1	13	1	2	3	33		24	5		4	3	2	5
KENT STATE UNIV OHIO	129		2	1		6	2	5	1	6		4	2	9	4		2		1		23	1
KENTUCKY, UNIVERSITY OF	66	2	1	2		3	3	6	2	6	1	15	8	17	14	12	5		2	1	2	6
KENYON COLLEGE OHIO	235	2	1	1		2	1		3	2		2	8	3	1		1	3		1	11	5
KNOX COLLEGE ILL	251		1	1		3	1	1		2		1	1	8	4	1	7		1		2	2
LAFAYETTE COLLEGE PA	160		2			2	2	2	6	1	2		9	3	1	2	3	1	1	2		2
LASALLE COLLEGE PA	272		2	1	5				1	1				2	2			2	1	2	3	3
LAWRENCE UNIV WISC	232		1	1		4	3	4		1		1	8	5	5	1	1				3	3
LEHIGH UNIVERSITY PA	88		2	3	1		1	1	5	7	2		3	5			3		3	9		
LONG ISLAND UNIVERSITY	180		1		1			9	10	3		1		1						1	1	8
LOUISIANA POLYTECH INST	214	1	3				1	2		1	1	1		1		2			2		1	6
LA STATE UNIV & AG & MECH COLL	52		6	5		5	2	3	3	5	4	7	3	8	2	7	4		4	1		
LOUISVILLE, UNIVERSITY OF	158		2			6		1	2	2	2		4	4	15	2				2	11	6
LOYOLA UNIVERSITY ILL	111		2	2	5	17	1				2		2	15	2	1	4	1		2		4
LOYOLA UNIVERSITY LA	264				1							2	2	1	3	1		1	1		3	3
LUTHER COLLEGE IOWA	272					2		1		1			2	4	1	9	21		1	2		
MACALESTER COLLEGE MINN	268	1	2	1		4	3	1	1	1		2		2		4	5			1		
MAINE, UNIVERSITY OF	113	7	5				2	2	1	15	4	4	11	6	5	4	1	2	2	4		2
MANCHESTER COLLEGE IND	251	1				1	1	2		1	1			4	25			1			7	2
MANHATTAN COLLEGE N Y	122		1		6	2		8	10	3		1	2	3	1	1		2	1	2	5	1
MARQUETTE UNIV WISC	110		1		3	1	2	2			1	1	3	9	2	4	3	2	2	2	1	1
MARSHALL UNIV W VA	279	1	1	1							1	1		4	2				2	1	7	7
MARYLAND, UNIVERSITY OF	45	1	1	2	5	2	2	3	4	13	4	9	9	11	6	3	3	9	128	2	2	2
MASS INSTITUTE OF TECHNOLOGY	6	5	62	12	2	17	5		42	22	5		67	37	14	8		8	14	563	9	12
MASSACHUSETTS, UNIVERSITY OF	73	11	1	2	1	4	1	3	3	22	1	2	13	16	6	3	4	1	6	8	1	32
MEMPHIS STATE UNIVERSITY	287		2	2		1					3	2		4	1	1	1	1	1		15	7
MIAMI UNIV OHIO	90	1	3	2	1	5	3	4	2	3	3	4	1	16	21	1	4		2	3		
MIAMI, UNIVERSITY OF	96	1	2	3		3	1	3	1	5	5	25	3	7	6		3	1	3	1	8	11
MICHIGAN STATE UNIVERSITY	22		14	5		6	5	3	2	10	6	4	7	31	10	10	9	3	1	6	1	7
MICHIGAN TECHNOL UNIV	197		5	1		1							1	2	1	5	2	1		6	260	38
MICHIGAN, UNIVERSITY OF	7	5	49	21	2	16	8	11	27	11	6	4	65	36	20	6	7	5	6	25	8	11
MIDDLEBURY COLLEGE VT	180	2		1		3		7	8	2			10	1	2			1	1	10	45	551
MILLSAPS COLLEGE MISS	284	5					1		1		3	1	1	1	3					1		3

Doctorate Institutions Granting Doctorates FY 1958 - 1966

MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	Baccalaureate Source Institution
		1			8	1		3		2				1			2		38	71	JOHN CARROLL UNIV OHIO
2		6	3	5	2	3	8	3	10	2		1	3		1		6	10	54	324	JOHNS HOPKINS UNIVERSITY MD
1			1	1		20	3	2	1	4	1		1				1		15	69	JUNIATA COLLEGE PA
				1	5		2						2	1	1		5	1	18	77	KALAMAZOO COLLEGE MICH
3	6	2	2	5	3	4	4	1	4	5	2	4	18		9	6	16	10	195	445	KANSAS, UNIVERSITY OF
1	10	1			2					4					5	2	2	1	65	111	KANS STATE COLL PITTSBURG
1	4			2	1	1				3		2	1	1	2		3	1	87	138	KANSAS ST TCHRS COLL EMPORIA
16	5			2	9	1	2	1	1	23	1	1	6	2	6	1	23	1	155	390	KANSAS ST UNIV OF AG & AP SCI
2		4		1	36	2	1	3		4	2			1		4	6	1	61	181	KENT STATE UNIV OHIO
3	6	3	6	3	11	3	2	1	2	14	2	2	1	2	6	1	6	4	139	333	KENTUCKY, UNIVERSITY OF
1				1	5	1	2	2	3	2		1	4			2	2	6	20	87	KENYON COLLEGE OHIO
1				1	2	1	1		1	3	1	2	2	1	2		4	1	23	80	KNOX COLLEGE ILL
2		3		1	2	9	11	5	5	3	1	1		2			1	13	37	141	LAFAYETTE COLLEGE PA
	1	1				3	17	2	2	1							1		27	74	LASALLE COLLEGE PA
6			1	6	2						1		1	1	2	1	8	1	17	88	LAWRENCE UNIV WISC
	1	4		2	5	14	7	4	13	3	5		8	1	3	1	7	7	109	248	LEHIGH UNIVERSITY PA
2	1	29	1		1	1	4		1	5	3			1	1		4	1	34	123	LONG ISLAND UNIVERSITY
	4	1			1			1		3			1		7				64	97	LOUISIANA POLYTECH INST
3	3	2	9	3	8	1		2		7	2	4	7	2	17	2	5	5	218	386	LA STATE UNIV & AG & MECH COLL
4	1			2	1		1	2		4		1			1			1	78	142	LOUISVILLE, UNIVERSITY OF
3	1	1	3	16	2		1		2	1	1	1	3		2	1	9	2	95	206	LOYOLA UNIVERSITY ILL
		1				1	2		3						1		2		54	76	LOYOLA UNIVERSITY LA
8			1									1				1	1		18	74	LUTHER COLLEGE IOWA
20		1		1	2		1		2		2		1		2	1	1	2	9	75	MACALESTER COLLEGE MINN
4	2	4		1	6	11	1	3		6	6		1	3			7	7	58	204	MAINE, UNIVERSITY OF
	1			2	11		1		1	10		3					2		6	80	MANCHESTER COLLEGE IND
2	1	15	1		1	3	2		1	11	5		4	4		2	6	5	78	186	MANHATTAN COLLEGE N Y
10		3	2	11	2		1	3		6		2	1		4	1	54		55	207	MARQUETTE UNIV WISC
			1	1	9		2	1		3				1			1		36	73	MARSHALL UNIV W VA
4	3	6	1	4	11	9	9	4	3	3	2	2	2	4	2	2	15	5	88	417	MARYLAND, UNIVERSITY OF
7	2	10	5	12	9	6	19	6	34	32	4	4	48	11		11	15	14	188	1353	MASS INSTITUTE OF TECHNOLOGY
7	1	5	5	1	6	4	2	1	2	7	13		3	4	4		9	9	82	295	MASSACHUSETTS, UNIVERSITY OF
		1			1			1					1	1	3				44	71	MEMPHIS STATE UNIVERSITY
4			3		41	4	1	4	1	7		2	5	4	8		12	9	44	247	MIAMI UNIV OHIO
		5	6	5	2	3	1	3	1	3	1		2		10	2	3	2	101	231	MIAMI, UNIVERSITY OF
16	4	2	2	6	12	4	4	2	4	26	7	7	10	1	2	2	38	7	98	684	MICHIGAN STATE UNIVERSITY
2	1			6	3	1				6			4	2		2	9		28	108	MICHIGAN TECHNOL UNIV
21	1	13	1	14	19	9	11	5	8	17	6	11	29	5	5	6	36	18	180	1341	MICHIGAN, UNIVERSITY OF
3		5	3			1	1		4	1	2		4	5			1	5	37	123	MIDDLEBURY COLLEGE VT
	1				1										3			1	49	72	MILLSAPS COLLEGE MISS

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
MINNESOTA, UNIVERSITY OF	8	4	31	23	2	11	11	18	11	21	3	3	23	22	10	19	19	6	9	11	19	25
MISSISSIPPI ST UNIVERSITY	136	1	2					1	1	5	2	5		6	2	4				2	1	
MISSISSIPPI, UNIVERSITY OF	258		1					1		1			2	5	3							1
MISSOURI, UNIV OF, COLUMBIA	28	2	15	3		9	4	6	3	7	2	5	6	27	5	22	8	2	3		10	7
MISSOURI, UNIV OF, KANS CITY	247	1	3		1	1	2	1	1	1	2	2	4	1		5	3		1			
MISSOURI, UNIV OF, AT ROLLA	203		2	1						1		1		10		6			2	3	1	2
MONTANA STATE UNIVERSITY	139		5	2		4	3			4			2	2		7	3	2			6	
MONTANA, UNIVERSITY OF	151		8	3			1	1		2	5		1	1	4	3	5			1	3	11
MONTCLAIR STATE COLL N J	221		1				1	17	3	1			4	2					2			2
MOUNT HOLYOKE COLLEGE MASS	217	4	3	1			1	2	10	5	1	1	11	3	2		2			1		4
MUHLENBERG COLLEGE PA	242			1		1			3	4			1	1	1	2	2	1	3	1		
MURRAY STATE COLLEGE KY	272					1		1				2		3	9	2	1				2	
NEBRASKA, UNIVERSITY OF	31	2	9	5		3	11	10	4	3	1	1	5	18	5	23	15	2	1	1	16	13
NEVADA, UNIVERSITY OF	264		7	2		1	2		2	2	1		1	2		1	2	1				1
NEW HAMPSHIRE, UNIVERSITY OF	98	8	5	1		1	3	4	4	7	5	2	18	10		5	2	1	4	4	3	4
NEW MEXICO STATE UNIV	242		1	2			2	1		2		3		3		4	1	1		1	1	
NEW MEXICO, UNIVERSITY OF	124	1	11	8		5	6	2	3	1			6	5	2	1	1			1	4	5
NEW YORK UNIVERSITY	11	4	19	11	5	13	7	58	59	13	2	5	25	10	11	2	5	9	7	17	4	16
N C STATE UNIV AT RALEIGH	98		7	1	1		1			7	14	3	2	3		11		1	2	2	5	2
NORTH CAROLINA, UNIVERSITY OF	54	1	4	1		5	1	6	5	6	17	6	7	6	2		2	9	4	2	2	12
NORTH CENTRAL COLLEGE ILL	291	2	1			5		1	2	1			1	11	1	1	1				5	3
NORTH DAKOTA STATE UNIV	171		4	1		1	2	1		2			1	1		11	1	1		5	10	2
NORTH DAKOTA, UNIVERSITY OF	213		1	1		1	1			1				2	4	2	2				2	4
NORTH TEXAS STATE UNIV	77	1	3				5	2		1	1	1		9	4	4	4	1	1		4	1
NORTHEASTERN UNIV MASS	173	14	3	2			1		3	2		1	11	1		1	2		1	15	1	3
NORTHERN ILL UNIVERSITY	197		2			5	3	3						22	16	3	6		1		1	4
NORTHWESTERN ST COLL OF LA	294						1						1	4	3		1					1
NORTHWESTERN UNIVERSITY ILL	27	2	22	14	1	25	1	8	8	6		2	33	31	18	3	9	1	3	16	8	20
NOTRE DAME, UNIV OF, IND	49	2	9	2	8	17	2	1	7	8	1	1	6	13	13	8	3		6	11	6	13
OBERLIN COLLEGE OHIO	32	9	14	5	1	19	4	8	20	6	11	2	58	19	13		17	15	1	5	5	45
OCCIDENTAL COLLEGE CAL	154	2	11	15		2	2	3	4	3			5	1	1	1		1	1	2		1
OHIO STATE UNIVERSITY	15	1	19	10		4	3	21	16	10	3	6	13	19	13	7	4	4	8	3	20	19
OHIO UNIVERSITY	100		2	1		2	1	9	5	2	3	5	6	12	15	3	5	1	2	1	4	16
OHIO WESLEYAN UNIVERSITY	140	8	1			5	2	5	2	2	1		11	10	8		2			4	1	13
OKLAHOMA ST U OF AG & AP SCI	33	2	3	4		5	7	1	2	8	1	7	3	15	8	22	2		4	1	20	2
OKLAHOMA, UNIVERSITY OF	40	3	12	5		7	5		3	2	3	3	8	17	12	9	3	3	3	1	5	10
MUNICIPAL UNIV OF OMAHA	235		3	3	1	2	4	1	1					1	4	2	4				2	
OREGON STATE UNIV OREG	59		27	3			3	1	5	6		5	2	12	4	10		2	4	2	7	7
OREGON, UNIVERSITY OF	80	1	16	2		6	5	1	4	5	1	1	6	2	5	3	5		2	1	1	5
PACIFIC, UNIV OF THE, CAL	291	1	11	1		3		1			1			2	1	1	1			1		1

Doctorate Institutions Granting Doctorates FY 1958 - 1966

MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	Baccalaureate Source Institution
669	9	8	5	15	9	10	8	1	6	17	5	10	28	1	7	14	50	6	157	1336	MINNESOTA, UNIVERSITY OF
	2		2		2	3		1		5			1		9	1	5		106	169	MISSISSIPPI ST UNIVERSITY
	2		4			1				3			1	1				2	50	78	MISSISSIPPI, UNIVERSITY OF
8	220	2	4	6	14	2	4		1	11	1	3	5	2	7	2	21	4	112	575	MISSOURI, UNIV OF, COLUMBIA
2	5					2				3		1	1		2	2	1		34	82	MISSOURI, UNIV OF, KANS CITY
	17			1	1	1	1	1		5			2		2		3		42	105	MISSOURI, UNIV OF, AT ROLLA
7	2		2	2	4	2		1		4			1		1	2	8		92	168	MONTANA STATE UNIVERSITY
4			1	1	4	5	2			3	2	3	4	1	2	13	7	3	48	152	MONTANA, UNIVERSITY OF
		20		1	1	6	1				18		1				3		9	93	MONTCLAIR STATE COLL N J
		1		2		2	3	1		1			1			1	3	9	20	95	MOUNT HOLYOKE COLLEGE MASS
1		1			5	5	10	2	1	1	2			1			1	2	31	84	MUHLENBERG COLLEGE PA
	1				3					1					2	1			45	74	MURRAY STATE COLLEGE KY
15	5	1	1	6	11	7	4	3	2	9		10	3	3	3	4	32	6	258	531	NEBRASKA, UNIVERSITY OF
4					3							5	8			3	1		27	76	NEVADA, UNIVERSITY OF
1	1	1	1	1	10	10	3	1	2	5	8		3	2	2	1	13	3	69	228	NEW HAMPSHIRE, UNIVERSITY OF
1	1			1	1	1		2		2			1		2		3		47	84	NEW MEXICO STATE UNIV
1	2	2	1	1	1	3	1	1	3			5	6	5	5	4	4	4	73	184	NEW MEXICO, UNIVERSITY OF
4	2	513	5	2	11	6	12	8	15	12	19	9	6	11	6	7	10	24	186	1170	NEW YORK UNIVERSITY
3			5		3	7			5	10		2	6	1			8		116	228	N C STATE UNIV AT RALEIGH
1	1	6	144	8	4	3	2	2	10			2	5	1	5	2	5	12	68	379	NORTH CAROLINA, UNIVERSITY OF
2				4	1		1					1	1		1	1	8	1	14	70	NORTH CENTRAL COLLEGE ILL
17			1		1	2		1		6						1	10		49	131	NORTH DAKOTA STATE UNIV
6	2		2	1	3	1				1		2	2			4	7	1	45	98	NORTH DAKOTA, UNIVERSITY OF
1	5	2	3	3	4	1			1	1		1	3		64		7	1	138	277	NORTH TEXAS STATE UNIV
1		2		3	3	4	1	2		2	1		1		1		2	2	42	128	NORTHEASTERN UNIV MASS
1	1			14		1				2		3			1		4		15	108	NORTHERN ILL UNIVERSITY
	2														4				52	69	NORTHWESTERN ST COLL OF LA
19	6	4	4	152	12	1	3	5	11	14	2	9	10	3	3	7	22	11	105	634	NORTHWESTERN UNIVERSITY ILL
3	2	5	1	8	7	3	10	5	7	8	1	1	13	4	2	1	12	11	151	392	NOTRE DAME, UNIV OF, IND
4	1	9	11	14	19	3	5	6	12	4	4	2	4	9	4	4	25	40	70	527	OBERLIN COLLEGE OHIO
1	1	2	3	3	3			1	2	1	1	27	8		1	6	1	3	29	148	OCCIDENTAL COLLEGE CAL
7	3	7	3	1	530	11	4	4	2	21	1	4	4	2	6	4	23	2	97	939	OHIO STATE UNIVERSITY
5	1	3	1	4	25	3	2	3		8	1	4	2	3	3		4	1	59	227	OHIO UNIVERSITY
2		2	2	3	29	3	2	1	1	1		4	1	1	1	1	4	4	29	166	OHIO WESLEYAN UNIVERSITY
10	12		3	3	12	7				15	3	2	8		10	4	21		298	525	OKLAHOMA ST U OF AG & AP SCI
3	5	2	3	5	4	5	1		3	7		2	6	1	28	2	15	5	248	459	OKLAHOMA, UNIVERSITY OF
3			1	1	2			1				1	1			1	1		47	87	MUNICIPAL UNIV OF OMAHA
8		1	2	4	5	3	1	2		12		1	19			29	20	2	152	361	OREGON STATE UNIV OREG
5		1	2	3	3	2	1		1	1		8	22	1	1	19	7	2	117	268	OREGON, UNIVERSITY OF
			2	2						2		4	9				2		24	70	PACIFIC, UNIV OF THE, CAL

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
PENNSYLVANIA STATE UNIV	19	4	10	6	3	8	6	8	7	20	9	5	15	20	8	8	4	7	13	14	26	22
PENNSYLVANIA, UNIVERSITY OF	29	1	9	4		12	4	8	23	13		2	25	14	5		1	3	1	16	3	12
PHILA COLLEGE OF PHARM & SCI	272		1							1		1		1		1			2	1		3
PITTSBURGH, UNIVERSITY OF	51	2	5	1		3	1	4	3	1	4		5	10	5		3	4	6	3	4	4
POLYTECH INST OF BROOKLYN	81		4	3		2			14	4			9	6				5	5	8	1	6
POMONA COLLEGE CAL	102	2	30	21	1	5			4	4			10	2	3	1	1	3		7	2	6
PRINCETON UNIVERSITY	23	2	24	6	2	12	2	4	36	18	3	2	103	18	4		1	17	4	31	3	7
PROVIDENCE COLLEGE R I	251	5			2					1		3	3	1						3	2	1
PUERTO RICO, UNIVERSITY OF	173		1	1	1	5		7	2	6	2	2	2	3	5	3		1			6	4
PURDUE UNIVERSITY	18		19	7	1	7	1	2	10	14	2	4	11	43	21	15	7	2	2	20	24	26
QUEENS COLLEGE N Y	58	2	14	3	2	7	3	11	36	5	3	1	17	8			5	3	4	4	4	11
RADCLIFFE COLLEGE MASS	165	4	4	1		2			10	3	1	1	55	1	1			4		2	1	5
REDLANDS, UNIV OF, CAL	173	3	6	11		1	1		1	1	1		4		1		1		1		1	1
REED COLLEGE OREG	105	2	12	7		16	1	1	14	7			13	5	2	1		4		5	2	3
RENSSELAER POLY INST N Y	44		9	3		4	3	2	8	18	1		21	5	1	2	3	9	2	35	2	5
RHODE ISLAND, UNIVERSITY OF	147	4	3					3		6	2	1	2	3	6	3	2	2	5	4	2	1
RICE UNIVERSITY TEX	69		9	3	1	1	6	2	2	4	11		10	12	2	1		7	2	6		4
RICHMOND, UNIV OF, VA	218				2	1	1	2	3	3	9	3	1	7	3		2	2				
ROCHESTER, UNIVERSITY OF	54	3	8	7	3	7	3	6	11	17	2		16	12	7		6	4	1	10	4	11
ROOSEVELT UNIVERSITY ILL	154	2	1	2	1	30	2	1	2		1			18	5		6		1		3	4
RUTGERS, THE STATE U, N J	26	2	11	5		6	4	9	21	29	2	9	15	9	9	6	7	10	11	11	9	10
ST JOHNS UNIVERSITY N Y	120		2		5			12	10	2		1		2	1				7	2	1	2
ST JOHNS UNIV MINN	268				6		2			1			2	2		13	1				1	1
ST JOSEPHS COLLEGE PA	247			1	5			1	2	1		4	1		1	2		2	1	2		
ST LAWRENCE UNIVERSITY N Y	298	1				1	2		3	4	1	4	5		1		1	1		2	2	1
ST LOUIS UNIVERSITY	103		6	3	10	5		2		3			10	9		2	1	5		4	2	
ST OLAF COLLEGE MINN	131		5	1		7	7	3		3	1		7	8	4	3	8			2	10	6
ST PETERS COLLEGE N J	268		2		2	1			2		1		2				2	3				
ST THOMAS, COLL OF, MINN	251		1		1	3	2			1				2		4	6		3		1	1
SAN DIEGO STATE COLLEGE	124		26	31		1	3	1	1	4		4	1	2	3	3	3		1		1	1
SAN FRANCISCO STATE COLLEGE	158	3	32	9			1	8	1		1			2	3		4		2		3	
SAN JOSE STATE COLLEGE CAL	101		31	10		1	1	4		5	2		1	3	1				2		6	4
SCRANTON, UNIVERSITY OF	298				2			1		2	2				1	1			2			
SETON HALL UNIVERSITY N J	245				8			6	3	1	1	1	1				2		2			
SMITH COLLEGE MASS	195	1	6	1		3		3	9	4			16	2	2					3		3
SOUTH CAROLINA, UNIVERSITY OF	188		2	1		1		2			7	3	3	4	2			2	2	1		
SOUTH DAKOTA STATE UNIV	160		1			3	1			1		1		9	1	10	3	1	1		4	
SOUTH DAKOTA, UNIVERSITY OF	257	1		2		1					1			4	4	4	4	1		1	2	4
SOUTHEAST MO STATE COLLEGE	247		1				1			1		1		2		12	5	1				
SOUTHERN CALIF, UNIVERSITY OF	56		15	19		6	1	2	3	3		2	7		1		3		1	5	1	2

Doctorate Institutions Granting Doctorates FY 1958 - 1966

MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	Baccalaureate Source Institution
15	2	9	5	9	22	268	31	26	9	23	11	4	6	5	4	8	15	10	162	867	PENNSYLVANIA STATE UNIV
7		6	4	4	2	3	204	6	16	4	8	1	4	4	2		10	15	103	559	PENNSYLVANIA, UNIVERSITY OF
2		1			1		5			6			1			1	9		37	74	PHILA COLLEGE OF PHARM & SCI
2		3	1	2	12	15	1	208	1	1	1	4	2	2	2	3	6	2	51	387	PITTSBURGH, UNIVERSITY OF
	1	12		4	2	9	4	4	6	2	5		3	4	1	2	3	7	129	265	POLYTECH INST OF BROOKLYN
1			1		2		4	1	5	3		10	10		2	7	9	8	59	224	POMONA COLLEGE CAL
11		5	3	14	4	7	19	4	93	3	4	2	28	2	1	5	20	49	105	678	PRINCETON UNIVERSITY
1					3		1	1		2	2			1		1	1	1	45	80	PROVIDENCE COLLEGE R I
2		10	2	1	3	5	4			3	4		1	1	1		5		35	128	PUERTO RICO, UNIVERSITY OF
9	4	2	1	9	24	5	6	5	6	359	7	5	11	4	6	6	19	9	137	872	PURDUE UNIVERSITY
11		54	3	4	4	4	5	2	6	10	2	4	3	3		1	8	20	80	367	QUEENS COLLEGE N Y
1		5					1	1			1		4	1			1	12	14	136	RADCLIFFE COLLEGE MASS
4			2	2		1		3	1	1		26	11		1	14		2	26	128	REDLANDS, UNIV OF, CAL
3		1	2	1			2		5	1	1	3	11	3	3	20	1	8	59	219	REED COLLEGE OREG
3		6		4	8	4	5	5	15	6	1		11	1	1	3	2	18	194	420	RENSSELAER POLY INST N Y
6	2	2	1	1	1	4				8	7			1		2	6	4	62	156	RHODE ISLAND, UNIVERSITY OF
6		2		4	2	2	1	1	6	3			11		31	1	9	11	146	319	RICE UNIVERSITY TEX
			15	1	1		1		2	1	2		1	1			2	2	26	94	RICHMOND, UNIV OF, VA
2	1	5	1	6	7	3	9	4	8	6	4	4	6	13	1	1	14	10	136	379	ROCHESTER, UNIVERSITY OF
		1	3	16		1		2		2		4	1		1	1	2	1	34	148	ROOSEVELT UNIVERSITY ILL
6	1	27	1	5	14	18	18	4	19	9	179		3	8	2		26	19	96	650	RUTGERS, THE STATE U, N J
1		25	1	2	1	4	2		1	4	7	1		1	1	1	4		88	191	ST JOHNS UNIVERSITY N Y
13	1			3						2	1					2	4	1	19	75	ST JOHNS UNIV MINN
		1				1	16	1	4	1									35	82	ST JOSEPHS COLLEGE PA
		4		1	1	3			1					6		2	2	1	18	68	ST LAWRENCE UNIVERSITY N Y
3	4		4	6		2	4		4	2		1	6	1	1		4	3	116	223	ST LOUIS UNIVERSITY
21	1	3	1	4	2	1	2	1	1	5		2	2		3	1	23	7	25	180	ST OLAF COLLEGE MINN
		5	1			1			4		5		1	1			4		38	75	ST PETERS COLLEGE N J
25	1				1					1			1		1		1	2	22	80	ST THOMAS, COLL OF, MINN
3				2	3	1				4		16	14		3	9	5		38	184	SAN DIEGO STATE COLLEGE
1	1	4		2	1		1		1			9	17	1	2	5			28	142	SAN FRANCISCO STATE COLLEGE
2		1	1	2	4	3				7		13	42	1	1	12	6		60	226	SAN JOSE STATE COLLEGE CAL
		2			2	9	1	4		1	2			4					32	68	SCRANTON, UNIVERSITY OF
		7			2	1					9		1			1			37	83	SETON HALL UNIVERSITY N J
1		8		1	1		1				3		6	1		1	1	18	15	110	SMITH COLLEGE MASS
1		1	5		3	1		2	1	4		1		1	1			3	63	117	SOUTH CAROLINA, UNIVERSITY OF
14	2				2	1				10			1	2		2	18		53	141	SOUTH DAKOTA STATE UNIV
3	2		1	2	1					3			3			2	5		28	79	SOUTH DAKOTA, UNIVERSITY OF
1	24			3	1								1			1	1		26	82	SOUTHEAST MO STATE COLLEGE
1	2	2	1	2	4	2	1	2	4	2	2	198	15	1	1	8	4	4	50	377	SOUTHERN CALIF, UNIVERSITY OF

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
SOUTHERN ILLINOIS UNIV	107	2	1	2		2	1	2	1	3	2	2	1	36	15	4	6		1	3	8	5
SOUTHERN METHOD UNIVERSITY TEX	117		7		1	3		1	8	1	4	1	6	5	4	2		1	1	1	1	6
SOUTHERN MISS, UNIVERSITY OF	258	1				2					1	2		2	3	1	1				1	
SOUTHWEST MO STATE COLLEGE	183	1		1			1	1						4	3	1	6		1		1	1
SOUTHWESTERN LA UNIVERSITY OF	227			1				2		1		2	2	5		2	1				1	
SPRING HILL COLLEGE ALA	262		1		7							4	3				1	4	1			
SPRINGFIELD COLLEGE MASS	239	4	1	2		2		7					3	4	1		2				1	
STANFORD UNIVERSITY CAL	21	3	55	25	1	5	12	6	11	9	2		42	7	3		2	6	2	8	1	17
STEVENS INST OF TECHNOLOGY N J	279		4						5	1			1					2	1	4		2
SWARTHMORE COLLEGE PA	61	3	9	2	2	11		3	15	17	7		51	11	3		1	7	3	13	1	15
SYRACUSE UNIVERSITY	37	4	10	5	1	8	2	20	12	10	4	1	9	12	4	1	1	4	1	10	2	7
TEMPLE UNIVERSITY PA	48	2	2	4		3		7	14	6		2	4	4	4		1	4	9		3	8
TENNESSEE, UNIVERSITY OF	74		4	2		3		4	3	8	4	5	4	11	4	8	2		3	3	9	4
TEXAS A & M UNIVERSITY	57		5	2		1			1	5	1	3	3	9		6	1	1		2	5	5
TEXAS CHRISTIAN UNIVERSITY	204			2		6	3		1		2	1	1	1	1				1	3	1	1
TEXAS TECHNOL COLLEGE	94		1	1			3	4	1	5		1	2	2		6	2		1	1	6	2
TEXAS, UNIVERSITY OF	16	1	24	13		9	7	8	8	5	2	2	24	20	8	3	3	5	3	12	3	11
TOLEDO, UNIVERSITY OF	245			2		1	1		1	1		2	1	5	3	1	1				3	19
TRINITY COLLEGE CONN	238	2	2		1		1	1	2	2	3	1	2	1	2		1	2		3	1	1
TUFTS UNIV MASS	92	18	7	6	1	4		4	10	4	1	2	34	7	2			3		13	4	10
TULANE UNIV OF LOUISIANA	124	1	3	2	2	4			1	1	2	3	8	1	3		1	1				5
TULSA, UNIVERSITY OF	258		1	1		1	3	1	1				1	4	1	2						1
UNION COLLEGE & UNIVERSITY N Y	132		2			5	1	1	5	3	2	1	11	10		2	3	5	2	3	2	5
U S MILITARY ACADEMY N Y	143	1	4	1	3		3		7	1			7	13		8	1	1	2	6		3
U S NAVAL ACADEMY MD	145		9	7	2	1	4	2	2	1	3	3	4	6	2			5	2	9		8
UTAH STATE UNIV OF AG & AP SCI	53	1	9	8		2	4	1		26			1	8	6	19	1	2	1	2	18	3
UTAH, UNIVERSITY OF	25	1	29	10		6	7	9	5	3			21	7	7	5		3	3	9	3	7
VALPARAISO UNIVERSITY IND	268		1	2		4	3		1					3	6	1	1	1		1		4
VANDERBILT UNIV TENN	118	1	2	2		2			1	2	4	8	6	5	1	2		4		2	2	2
VASSAR COLLEGE N Y	207	2	3	3		2		3	13	2	1	1	20	1	1	1		2				6
VERMONT, U OF & ST AG COLL	156		3			2		4	5	13	1	1	5	1	3		1		4	2	7	6
VILLANOVA UNIVERSITY PA	218		2		11		1	1	4	1		2		1	1	2		1		2		2
VIRGINIA POLY-TECHNIC INST	108		2	1	1					5	14	4	1	6	1	4		3	5	7	5	2
VIRGINIA, UNIVERSITY OF	119	1		2		2		2	4	4	3	3	5	2	3		1	1	4	3	1	4
WABASH COLLEGE IND	189		2	1		4	1		1	3	4	1	6	4	27	2				1	1	2
WAKE FOREST COLLEGE N C	186							1	1	1	17	3	2	2	2			1	1			3
WASHINGTON STATE UNIV	72		9	4		8	4	8	1	7	2	2	1	10	4	2	4	3	4	2	11	3
WASHINGTON UNIVERSITY MO	60	2	7	2	2	10	1	4	8	8	1	2	11	20	5	3	5	1	3	3	2	15
WASHINGTON, UNIV OF, WASH	20		43	21	1	10	4	15	9	6	3	2	19	14	6	4	4	5	2	9	4	14
WAYNE STATE UNIV MICH	30	1	13	4	1	19	1	4	6	4		1	5	13	7	4	8		5	8	21	106

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Baccalaureate Source Institution	MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL
SOUTHERN ILLINOIS UNIV	4	8	1		7	9	1	1		1	6	1		1	1	2	1	6		65	212
SOUTHERN METHOD UNIVERSITY TEX	1	1	1	3	3	2	2	2		4	3		1	6	2	26	1	8	8	70	197
SOUTHERN MISS, UNIVERSITY OF					2				1		1					2				58	78
SOUTHWEST MO STATE COLLEGE	3	37			3	1					3		4			2		2		45	121
SOUTHWESTERN LA UNIVERSITY OF	1	1	1						1		1					5	1	1		61	90
SPRING HILL COLLEGE ALA	2			2		1		3			1		1			2	2	2	2	38	77
SPRINGFIELD COLLEGE MASS	1		7			5	2	1	1					2	2				1	36	85
STANFORD UNIVERSITY CAL	7	1	2	1	2	6	4	2		16	4		11	292	1	4	16	11	19	72	688
STEVENS INST OF TECHNOLOGY N J			2		2		1	2	1	4	1			1			1			38	73
SWARTHMORE COLLEGE PA	4		2	5	2		2	37	2	25	1	3		8			2	9	27	53	358
SYRACUSE UNIVERSITY	6	2	15	2	6	10	5	12	4	3	9	10	3	10	139	4	3	15	6	105	497
TEMPLE UNIVERSITY PA	3	2	10	2		4	11	73	4	2	6	4	2	1		2		11	3	181	398
TENNESSEE, UNIVERSITY OF	4	1	2	6	3	13	3	1	1	1	7	1	1			5	1	12	4	147	294
TEXAS A & M UNIVERSITY	5	1		1	2	8	1	1	2	3	10	3	1	5		48		12	1	216	370
TEXAS CHRISTIAN UNIVERSITY			1	2				1	1	4				2		20	1	1	1	46	104
TEXAS TECHNOL COLLEGE	1	5		1	3	4	1	1		2	6		1	5		37	1	9	2	117	234
TEXAS, UNIVERSITY OF	11	6	3	4	3	11	4	4	3	4	5	2	1	10	1	456	3	14	10	169	895
TOLEDO, UNIVERSITY OF	1		1		3	12		1	2		2	1		1	1			1		16	83
TRINITY COLLEGE CONN					7	1	2	3	2	4	3	1	1		1		1		7	25	86
TUFTS UNIV MASS	2		6	2		7	3	2		3	7	5	1	3	3	3		4	3	56	240
TULANE UNIV OF LOUISIANA	2		1		5	3	2	1	1	2	2	1		5		3		3	4	111	184
TULSA, UNIVERSITY OF		2				1	2				1					8		2	3	42	78
UNION COLLEGE & UNIVERSITY N Y	2	1	7	3	6	3	2	4		4	2	1		2	4	1		7	5	62	179
U S MILITARY ACADEMY N Y	2		1		1	6	1	6		7	2			11	3	5		1		56	163
U S NAVAL ACADEMY MD	1		2	2	1	2	1	2	1	2	1	2	2	10	2	4	2	2	2	50	161
UTAH STATE UNIV OF AG & AP SCI	17	6	1	1	1	4	5		1		9	6	2	13	1		5	30	2	169	385
UTAH, UNIVERSITY OF	9	3	6	2	10	10	5	2	3	9	7	1	15	20	2	3	13	14	6	378	653
VALPARAISO UNIVERSITY IND	1		1		9				6		8			3			1	2		16	75
VANDERBILT UNIV TENN	2	1	3	1	2	2		1		6	3			5		3	1	5	9	104	194
VASSAR COLLEGE N Y	3	1	3	1		1		1	1					3		1	1	3	7	14	101
VERMONT, U OF & ST AG COLL	3	2			3	4	9	4	2		7	10		1	3	2		2	4	33	147
VILLANOVA UNIVERSITY PA	1		1				5	8	2	2	1	1	1		1			1		39	94
VIRGINIA POLY-TECHNIC INST		2	2	7		3	7	1	1	2	6	2	2	4		1	1	11	1	97	211
VIRGINIA, UNIVERSITY OF		2	2	3	2	2	3	2	3	2	2	2		3	4	2		5	2	107	193
WABASH COLLEGE IND		1	1	1	4	1				1	12	2		7		1	1	1	6	17	116
WAKE FOREST COLLEGE N C			1	39	1	1		1	1	4	1								2	34	119
WASHINGTON STATE UNIV	10	2		2	3	1	3		1		16	1	1	17	1	1	22	18	2	106	296
WASHINGTON UNIVERSITY MO	8	8	5		4	4	2	4	2	2	6		2	6	1	4	4	10	6	166	359
WASHINGTON, UNIV OF, WASH	13	1	5	1	4	4	2	6		10	7		17	30	2	2	301	10	8	122	740
WAYNE STATE UNIV MICH	2		2	1	10	14	4	5	1	3	10		1	8		2		11	3	232	540

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
WELLESLEY COLLEGE MASS	149	2	2	1	2	5	1	2	15		3		23		6			1	1	2		7
WESLEYAN UNIV CONN	116	2	5	1	1	2	1	4	10	6	2		25		6	2	2	2		7	1	8
WEST CHESTER STATE COLL PA	294	1			1	1	2	5			1	2		1	1		2		3			
WEST VIRGINIA UNIVERSITY	85	1	1	1		3	1	2	2	7	2	6	2	16	8	5	2	1	7	1	3	1
WESTERN KY STATE COLLEGE	279							1			1	2	1	3	13	1					2	
WESTERN MICH UNIVERSITY	136			1		1	1	3				2	3	5	10	1	3				44	24
WESTERN RESERVE UNIV OHIO	83	1	5	1	2	6		2	5	6	2	2	5	8	5	1	2	1	3		3	10
WHEATON COLLEGE ILLINOIS	121	2	2	2		11		4	2	5		3	7	14	11	2	2	3	4	1	9	6
WHITTIER COLLEGE CAL	272	2	5	9				2						1	2	3						
WICHITA STATE UNIVERSITY	172	2	2	1		1	3	2	3	2		3	2	14	1	2	4			1		2
WILLAMETTE UNIV OREG	230	2	7			2	1		2		3	1		3			1	1			1	1
WILLIAM & MARY, COLLEGE OF, VA	153	2	3			1	1	3	4	3	8		8	2	3	1	1	4	4	1	1	7
WILLIAMS COLLEGE MASS	124	2	1	1		3	1	1	11	2	2		37	5	2	1	2	4	1	13	1	5
WISCONSIN, UNIVERSITY OF	5	2	31	9	1	30	11	11	25	21	1	2	34	49	19	10	25	5	10	14	21	32
WOOSTER, COLLEGE OF	142	1	2			7	1	2	1	1	2	4	4	9	8	1		1		2	7	5
WORCESTER POLYTECH INST	287	1	1	1	1		1			3			2	3	1					6	2	2
WYOMING, UNIVERSITY OF	150		2	2		3	2		1			1	1	5		2	2		1		1	2
XAVIER UNIV OHIO	232				3	2	1		1			2		4	4	1		2			1	1
YALE UNIVERSITY CONN	17	3	48	6		16	4	13	47	20	11		107	12	6		3	13	5	26	3	21
YESHIVA UNIVERSITY N Y	141	2		1		6		5	19	2			7						1	8	1	
OTHER B S INSTITUTIONS		365	852	370	518	613	223	579	1076	691	285	288	695	1099	816	391	542	265	332	495	622	704
TOTAL		994	3783	1968	898	2263	919	1731	3344	2223	907	1009	3774	3907	2333	1478	1656	968	1058	2253	2102	3126

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Baccalaureate Source Institution	MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS—THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL
WELLESLEY COLLEGE MASS	1		8	2	2	1	2	3	1		1	1	1	3	2		1	4	20	29	155
WESLEYAN UNIV CONN	2		1	1	4	2	1	12	1	3		1		6	3		2	10	18	45	199
WEST CHESTER STATE COLL PA			2			1	11	10	1		1	1								22	69
WEST VIRGINIA UNIVERSITY	3	5	3	4	4	28	6	3	9	1	9			1	1			14	2	89	254
WESTERN KY STATE COLLEGE		2		1	2	2		1			2		1	1				2		35	73
WESTERN MICH UNIVERSITY	2	2	1	1	1	10	3	1			9		3	1		1		8		28	169
WESTERN RESERVE UNIV OHIO	1		5		2	22	1	4	1	1	2	1	3	3	1	6	4	5	5	121	258
WHEATON COLLEGE ILLINOIS	3		9	1	12	3		6	1	2	5	1	5	1		2		2	4	42	189
WHITTIER COLLEGE CAL	1				1								30	4			1	1		12	74
WICHITA STATE UNIVERSITY	1	2	1		4	1		1	1	1			2			1		5		65	130
WILLAMETTE UNIV OREG	1												2	8	2		7	8	4	32	89
WILLIAM & MARY, COLLEGE OF, VA			4	10	7	2	1	2	1	5		1				1		3	3	53	150
WILLIAMS COLLEGE MASS	1	1		1	3		3	6		11	1	2	1	5	1	1		3	30	19	184
WISCONSIN, UNIVERSITY OF	43	6	17	3	29	12	7	9	3	12	21	6	8	31	4	4	8	613	7	149	1355
WOOSTER, COLLEGE OF	4	1	2		3	13	1		6	3	1		1	2	2	4	1	9	10	43	164
WORCESTER POLYTECH INST	1							2		6	3			1					5	29	71
WYOMING, UNIVERSITY OF	3	2	1		1	4	2			3	2	2	6	4	2	5	3	7	4	78	154
XAVIER UNIV OHIO	1				2	4	1	1	1		5				1	2		2		46	88
YALE UNIVERSITY CONN	17		12	7	11	1	4	22	5	32	4	1	4	32	1	2	12	13	230	100	874
YESHIVA UNIVERSITY N Y			17					3	1	2					2			1	2	85	165
OTHER B S INSTITUTIONS	782	285	609	311	402	786	496	472	368	302	590	282	436	534	255	513	393	1123	450	11112	32322
TOTAL	2590	981	2896	1029	1519	2726	1628	1706	1107	1414	2371	1028	1562	2393	840	1854	1450	3817	2158	33082	110845

APPENDIX D

Migration, State by State, From Baccalaureate to Doctorate, 1920 - 1966 and 1960 - 1966

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution																								
		MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA
ME	1920-66	6	9	2	335	44	90	262	38	61	33	36	65	32	40	14	30	8			1	2	2	30	15
	1960-66	6	7	1	85	22	19	75	19	29	11	15	18	9	18	5	13	3				2	2	8	6
N H	1920-66	2	12	3	315	21	98	334	81	64	54	33	112	63	58	25	36	7			3	4	3	36	20
	1960-66	2	12	2	93	10	34	87	36	28	17	15	28	24	24	7	9	1			1	1		14	10
VT	1920-66		3	7	98	16	38	193	31	43	21	24	39	31	16	9	9	3				3	4	14	15
	1960-66		3	7	41	4	11	57	15	15	9	13	14	14	2	3		1				2	1	5	6
MASS	1920-66		30	6	5782	182	721	1971	341	489	192	260	728	367	283	126	131	82			12	24	14	262	207
	1960-66		28	1	1922	66	273	615	173	178	82	136	248	172	94	39	41	22			5	12	6	94	63
R I	1920-66		6	3	264	188	121	196	58	58	29	45	81	25	45	25	22	10	1			4		40	41
	1960-66		4	3	75	65	54	62	20	22	9	22	24	11	15	10	9	4						13	16
CONN	1920-66	2	1		462	291	402	599	129	163	69	69	180	104	95	55	53	14			1	8	3	79	44
	1960-66	2	1		194	12	340	209	47	84	23	36	62	47	39	21	20	9				1	1	30	14
N Y	1920-66	2	11	11	1847	155	917	14928	813	1240	588	669	1160	716	574	243	332	152	3		26	103	49	539	569
	1960-66	2	7	6	766	77	319	4882	415	522	217	333	412	348	228	101	118	63	2		11	48	22	212	217
N J	1920-66	1	6	3	374	20	204	994	1048	252	86	80	168	77	115	37	40	22			3	8	10	134	65
	1960-66	1	6	2	170	11	69	354	362	115	36	31	76	27	46	16	18	13				3	6	51	26
PA	1920-66	5	4	3	933	73	429	1921	502	6243	450	350	700	399	293	142	164	74	3		15	39	166	402	314
	1960-66	5	3	2	309	30	126	533	212	2000	185	175	196	184	100	47	51	37	2		7	16	78	110	126
OHIO	1920-66		1	2	674	66	358	1345	180	551	4203	541	1048	643	454	158	296	99	3		25	37	13	219	164
	1960-66		1	2	211	20	102	326	47	155	1440	254	316	309	131	44	80	39	2		10	13	8	53	53
IND	1920-66		2		298	21	134	543	77	236	3512	368	847	337	283	75	199	83	2	1	21	28	8	96	126
	1960-66		2		95	9	51	144	41	92	110	966	233	154	65	21	60	42		1	7	18	4	24	26
ILL	1920-66	1	1	2	631	44	198	1154	136	332	305	604	6622	498	620	274	568	266	6	1	54	69	9	138	175
	1960-66	1	1		227	19	53	293	53	107	105	289	1954	235	178	84	166	100	6	1	20	34	4	52	55
MICH	1920-66	1	2	1	340	46	121	549	77	176	300	311	636	3905	294	121	200	70	4	2	17	31	5	95	88
	1960-66	1	2	1	138	7	43	138	26	75	115	146	220	1536	119	44	67	27	2	2	3	20	2	21	26
WISC	1920-66				214	19	62	400	47	87	116	175	550	207	2720	228	222	65	9	1	18	26		57	104
	1960-66				64	5	15	103	19	26	46	85	192	93	714	85	81	25	3	1	7	21		20	29
MINN	1920-66			1	226	9	120	390	55	102	80	159	418	173	278	2182	310	87	67	3	57	27		86	105
	1960-66			1	68	5	33	102	21	39	23	78	135	84	98	724	116	34	44	3	23	20		17	31
IOWA	1920-66				185	8	78	487	31	98	118	203	464	175	254	199	2278	86	7	13	74	46	7	55	73
	1960-66				57	5	15	88	8	23	33	96	109	74	57	69	683	42	2	13	37	25	2	10	22
MO	1920-66		1	1	186	8	112	457	40	130	109	172	585	148	177	103	3141	682			51	117	3	78	90
	1960-66		1	1	56	4	16	83	9	48	38	75	176	54	53	29	104	610			23	61	2	26	39
N D	1920-66				24	1	8	49	3	17	16	30	41	38	58	75	64	13	91	3	6	10	1	13	4
	1960-66				6		1	9		5	5	14	8	22	15	27	20	3	48	3		4		2	
S D	1920-66				30	4	8	52	12	27	37	47	105	36	80	81	149	24	8	27	20	29	1	[illegible]	11
	1960-66				10	1		11	3	8	6	31	30	12	24	26	41	8	4	25	15	10	1	4	3
NEBR	1920-66				67	3	48	236	22	53	57	79	219	87	135	103	211	60	4	3	713	36	1	31	45
	1960-66				11		5	33	4	16	21	29	43	37	36	23	57	21	1	3	321	23		5	7
KANS	1920-66		1		171	9	68	311	29	93	123	158	456	162	207	111	267	123	1	1	65	757	2	54	63
	1960-66		1		49		16	60	7	23	22	76	114	74	55	26	65	43	1	1	20	338		11	14
DEL	1920-66				17	1	6	26	12	40	9	12	20	7	7	11	1	1			1	1	18	11	6
	1960-66				9	1	3	10	9	18	3	7	8	2	4	6					1		16	3	2
MD	1920-66	1			144	9	64	333	60	175	70	62	112	72	57	18	31	19	1		8	1	171	209	236
	1960-66	1			52	2	19	113	27	78	33	30	43	40	25	7	8	9			5		11	313	81
DC	1920-66				96	11	45	260	37	119	41	39	96	26	37	22	12	20			1	4	3	136	1223
	1960-66				33	5	18	65	16	38	13	17	19	9	8	5	2	6			1	2	1	33	236
VA	1920-66				171	12	73	385	68	164	90	59	190	78	69	28	51	20			4	4	6	167	68
	1960-66				40	3	13	91	28	58	24	23	30	23	25	5	11	9				2	5	31	27
W VA	1920-66				47	4	23	161	15	161	142	68	89	52	56	20	50	13			1	4	10	49	23
	1960-66				16	1	5	36	2	48	54	29	29	16	21	4	11	7				1	7	14	7
N C	1920-66	1		1	162	15	104	372	76	117	75	70	158	76	75	23	56	17	1		5	9	5	91	37
	1960-66	1		1	50	10	38	95	37	38	21	38	52	43	23	8	15	4	1		3	5	3	32	17
S C	1920-66			1	40	3	36	171	32	48	44	49	65	35	35	15	29	7			4	6		37	12
	1960-66				7	1	9	32	4	14	15	24	15	11	7	3	6	2			1	3		10	6
GA	1920-66			1	131	6	54	246	34	57	92	51	140	58	81	24	42	8			3	6	5	68	22
	1960-66				48	2	13	53	6	24	32	25	32	25	19	7	14	5				5	3	11	9
FLA	1920-66			1	58	4	28	184	22	61	70	70	116	53	50	18	37	14			3	6	2	33	17
	1960-66				23	1	9	57	7	25	21	35	41	27	14	2	9	8			1	2		18	6
KY	1920-66		1		84	1	48	205	27	64	155	197	222	103	73	32	78	47	2		9	12	1	30	32
	1960-66		1		21	1	8	41	8	22	53	104	66	31	11	9	21	15			4	5		7	9
TENN	1920-66		1	1	109	6	70	248	34	57	101	102	186	92	85	25	64	37	2		5	9	4	53	15
	1960-66			1	44	1	22	53	10	23	41	44	61	40	29	10	18	15	2		2	5	4	15	5
ALA	1920-66			1	51	9	16	239	18	61	82	63	133	62	62	17	47	15			7	7	1	46	32
	1960-66				17	5	4	57	2	20	28	27	48	16	19	5	14	9				5	1	17	16
MISS	1920-66				35	2	18	77	3	25	24	56	86	20	42	9	36	22			2	10		28	9
	1960-66				11		2	18	2	7	5	20	21	3	5	1	7	11				5			2
ARK	1920-66				38	3	10	92	8	16	28	47	94	29	35	14	36	47		1	5	21	2	27	9
	1960-66				6	1	2	12	4	7	9	25	31	13	13	3	8	24		1	1	14	1	9	1

Doctorates Granted by State of Doctoral Institution

VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.	State of Baccalaureate Institution
4	1	24	1	2	8	1	5	2			4	4	10	1		1	6	1	2	1		9	1	43				1286	ME
1	1	12	1	1	6		2	2			4	1	4			1	3	1	2	1		5	1	15				437	
8	2	37		3	6	2	11			1	5	1	12		1	1	17	1	4	3		16	2	82				1599	N H
5	1	19		3	3		5				2	1	6		1		10		3	3		11		46				574	
2		12		2	7	2	2		1		1	1	5			2		3	3			3	1	20				684	VT
1		6		2	3	2	2		1			1	4			1		2	3			1	1	10				263	
36		148	2	13	38	6	38	5	2	2	20	18	71		2	1	49	8	18	15		55	35	798		3	6	13599	MASS
21		64	2	7	25	3	19	5	2	2	7	12	37		2	1	30	3	13	10		28	16	425		2		5006	
7	1	27	1	1	10	4	4	2	1	1	4		11	1			10	1		1		15	2	61		3		1430	R I
6		9	1		7	1	1	2	1	1	3		2	1			5					9	1	41		3		532	
17		55	2	5	14	2	12				6	3	27				10	2	5	2		24	2	242			1	3992	CONN
11		25	2	4	9	1	4				4	3	9				8	2	3	2		17	2	125				1423	
71		6287	3	24	165	26	88	7	2	5	45	42	141	2	2	6	140	24	37	32	2	89	46	1167	2	3	7	28118	N Y
36		3103	1	18	103	9	50	4	2	4	25	20	72	2	2	4	66	18	37	15	2	55	27	554	1	3	2	10566	
20	2	40	1	6	28	6	12	3			15	5	19	1		2	17	8	7	3		15	6	220	1		1	4185	N J
9	2	15	1	5	21	5	9	2			8	5	13	1		2	9	4	7	1		11	2	116	1			1688	
72	29	182	2	20	79	14	51	11	2	2	28	25	79	2	1	5	69	9	21	11		44	19	474		2	3	14880	PA
29	19	76	2	14	47	4	24	6	2	1	13	15	38	2	1	4	45	6	17	4		30	6	212			2	5233	
34		3147	1	13	110	25	51	7	3	2	26	16	103	3		8	84	6	23	6		61	39	518	1	4	2	12376	OHIO
18	2	65	1	7	70	9	20	5	2		15	8	55	3		5	45	4	20	5		28	23	216	1	4		4257	
20	7	66	1	16	54	17	36	4	1	2	26	24	60	1		3	83	10	19	13		41	23	317		3	6	6989	IND
13	4	31	1	10	39	9	18	2	1	1	10	16	27			1	39	7	15	5		21	17	151		3	1	2607	
38	2	88	3	14	82	22	88	7	7	6	50	41	97	3	1	12	171	15	22	12		89	66	834		3	50	14531	ILL
19	1	34	2	11	50	8	37	4	7	3	24	31	46	3	1	6	84	8	18	6		39	36	352		3	6	4876	
14	4	61	2	7	38	11	29	4	3	1	18	22	40	2	1	2	82	6	16	19		40	33	455	1	3	7	8313	MICH
6	3	27	2	7	19	7	9	4	2	1	4	14	18	2	1	2	40	3	13	12		12	18	227	1	3	1	3239	
6	1	35		4	27	3	23			3	13	20	34	2	1	12	93	8	16	11		33	22	258	1		2	5955	WISC
3		12		4	14	2	10			2	7	12	22	2	1	10	65	4	10	6		21	13	96	1			1951	
15	2	33		1	20	4	18	1		2	12	12	34	5	1	15	125	6	18	10		73	34	330	1		6	5713	MINN
8		11		1	8	1	13	1		2	6	9	12	5	1	7	64	4	17	6		36	19	144	1		2	2077	
9	4	62	1	5	19	12	18	6	2	4	22	23	39	3	1	18	125	5	11	8		54	37	278		1	3	5709	IOWA
5	2	29	1	3	12	4	7	3	2	4	8	17	20	3	1	9	68	2	11	3		23	16	96		1	1	1821	
12	2	50		4	39	9	94	6	3	29	30	44	80	3		12	117	14	14	7		27	16	283			3	5462	MO
6		18		3	29	3	31	5	2	21	18	29	35	3		7	49	7	13	3		9	11	104			1	1915	
1	1	9		2	3	1	2			1	3	8	2	8		3	27	2	3	2		29	13	44			1	730	N D
1	1	8		2	2					1	2	7	1	8		2	13	2	3	2		12	6	14				279	
3		7		1	9	4	4	1			4	23	13	3		16	68	2	5	8		16	14	55	1		3	1064	S D
2		6		1	5	3	3	1			2	17	5	3		10	22	1	4	5		9	5	20	1		1	399	
4		21	1	6	10	3	14			1	5	21	22	3	1	22	114	5	8	12	1	41	29	187		2		2746	NEBR
2		13	1	5	7	3	5			1	1	12	10	3	1	16	57	5	7	5	1	10	10	59		2		932	
7		32	1	4	16	6	28			23	18	125	79	2		22	178	9	12	11		40	32	264			4	4145	KANS
3		11		3	10	2	8			20	8	84	44	2		17	76	4	10	5		17	14	81			1	1436	
2		12		2	3		1				3		2				1	1				1		7		1		243	DEL
1		5		1	2								2				1							4		1		119	
24	1	58	1	5	27	6	8				7	11	25	1			20	1	5	6		10	4	114		1		3034	MD
9	1	24	1	4	19	3	6				3	8	15	1			13	1	5	2		6	2	63				1083	
17		28		2	11	1	9	1		2	6	4	9				10		3	2		2	4	62			1	2402	DC
10		11		1	9		4	1			3	3	3				6		2	1		1	2	28			1	613	
692		11256	4	20	49	13	60	2	1	1	24	6	31				13	3	8			4	8	67		2		2982	VA
210		7111	3	12	31	7	24	1	1	1	12	3	14				7	2	7			2	4	28		2		937	
22	139	46		10	25	17	32	4	1	3	7	6	18				12	1	4	2		7	2	30		1		1377	W VA
9	53	20		9	11	8	19	4	1	3	5	4	5				3	1	4	2		3	1	11		1		485	
91		1142	24	29	76	15	108	13	3	1	25	9	44	1	1		19	1	1	2		3	9	106		2		3272	N C
44		470	19	18	59	10	53	10	3	1	15	6	21	1	1		14		1	2		2	5	60		1		1351	
73		1286	93	38	63	11	109	14	3		19	8	24			1	2	2				3	3	26	1		1	1450	S C
28	1	94	53	26	38	4	36	14	3		13	6	10				1	2						3	1			503	
36		3190	5	355	108	15	106	30	13	3	33	15	56				10	1	1			4	3	73		1	1	2191	GA
13	1	71	5	268	65	8	41	24	12	2	20	13	22				3	1	1			2	1	29		1		936	
20		3121	1	29	572	8	40	15	4	3	39	9	42		1	1	13	1	5	2		16	5	60		1		1858	FLA
12	1	62	1	25	353	4	19	15	4	3	26	5	26		1		6		5	2		7	2	33		1		919	
30	3	88	2	13	63	365	135	9	8	3	23	20	33	1		2	17	3	5	6		7	10	50			2	2321	KY
14	2	41	2	12	41	166	55	7	7	1	11	8	15	1			9	2	3	4		3	6	19				866	
43		1158	6	55	81	27	798	28	24	6	40	13	76				16	1	4	3		16	3	84			3	2792	TENN
17		58	5	49	55	18	337	22	22	6	27	2	45				10	1	4	2		8	2	39				1174	
41		3114	5	38	66	6	141	293	10	1	57	15	55		1		12	1	1	3		11	4	54				1901	ALA
11	2	49	5	23	45	2	51	222	9	1	31	14	21		1		7	1	1	1		8	1	24				840	
21	2	88	2	20	32	4	80	28	106	6	83	15	69			2	10	4	1			3	1	23		1		1105	MISS
6	1	18	1	15	26	2	31	23	89	6	47	11	36			1	5	4	1			2	1	8		1		455	
5		44		10	19	5	71	9	14	179	61	61	91	1		1	25	2	3	1		4	4	39		1	1	1213	ARK
2		13		8	12	2	19	8	11	139	34	27	53	1			13	2	2	1		1	3	15		1	1	553	

APPENDIX D
continued

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution																								
		MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA
LA	1920-66		2		69	6	30	129	20	37	56	65	121	59	55	26	72	33	3	1	4	18	4	20	28
	1960-66		2		17	3	8	29	10	15	14	36	34	23	12	6	22	15	2	1	3	12	2	6	7
OKLA	1920-66				54	2	39	147	17	41	69	97	177	88	119	42	116	59	2	2	25	49	3	27	15
	1960-66				20		8	29	6	14	26	44	65	41	38	12	38	28	2	2	7	26	3	8	6
TEX	1920-66		1		304	28	121	422	73	127	132	156	396	147	178	71	171	95		1	17	56	6	80	57
	1960-66		1		100	11	40	105	38	44	50	81	111	60	67	30	46	46		1	7	31	5	32	14
MONT	1920-66				28	1	12	60	8	51	23	35	68	41	58	50	54	18	2		4	6	1	14	7
	1960-66				5		3	12	2	14	10	12	11	15	14	13	11	7	2		2	2		2	2
IDA	1920-66		1		12	1	21	41	3	14	13	26	48	34	35	25	34	12	1	1	5	6	1	10	5
	1960-66				4	1	5	7	2	2		12	19	16	10	8	13	6	1	1	4	4		2	
WYO	1920-66				6	1	10	32	6	6	7	8	23	10	20	12	14	9			7	1		2	5
	1960-66				1		4	3	4	4	3	3	9	3	6	2	3	2			2	1		1	2
COLO	1920-66	1	1	1	136	4	61	278	38	61	65	91	244	100	80	64	143	53		1	32	25	1	45	28
	1960-66	1		1	45	1	10	66	12	24	23	41	51	40	20	12	48	18		1	14	15	1	8	8
N M	1920-66				27	1	9	44	7	17	10	16	36	22	12	11	30	12			3	5		6	7
	1960-66				8		4	15	4	8	5	6	14	10	5	5	8	4				2		2	3
ARIZ	1920-66		1		29		11	59	5	15	24	25	51	28	30	10	23	4			3	5	1	7	8
	1960-66		1		15		3	17	3	7	12	15	13	15	9	2	9	2			2	4	1	1	5
UTAH	1920-66		1		113	5	22	274	55	61	86	110	177	99	175	87	150	29	1		11	19	2	27	20
	1960-66		1		48	3	7	58	19	28	26	49	59	50	45	29	28	13	1		1	4		9	5
NEV	1920-66				7		3	9	1	1	3	3	11	5	1	6	5	1					1	2	1
	1960-66							4			3		4	1	1	4	2	1						1	
WASH	1920-66			1	183	10	75	341	49	64	60	76	219	96	133	91	61	56	1		13	6		52	53
	1960-66				40		13	77	15	23	11	38	50	43	34	24	16	11	1		7	4		22	11
OREG	1920-66			1	121	13	54	234	26	58	44	81	165	70	121	50	92	20	1	2	8	14	2	32	13
	1960-66				29	4	14	66	12	27	11	34	60	25	40	13	19	8	1	2	2	6		10	1
CAL	1920-66			1	742	32	237	849	183	167	146	186	509	248	225	146	146	92	2		30	37	8	141	110
	1960-66			1	274	9	62	260	73	66	60	105	180	118	94	59	59	40	2		13	20	4	46	50
ALAS	1920-66				3		2	1		3				1	4		2								
	1960-66				2					1					4		2								
HAWA	1920-66				14	1	5	35		4	10	9	22	9	19	10	13	1				1		4	1
	1960-66				5			11		1	5	6	12	7	6	5	8	1						1	1
P R	1920-66			1	11			75	7	31	8	14	24	20	9	8	3	3			1	3	1	2	4
	1960-66				2			22	4	12	1	7	10	8	5	2	3	1				2	1	1	2
UNK	1920-66				152	5	20	950	14	35	40	34	227	37	41	13	66	20	3		31	9		133	139
	1960-66				23	4	4	569	4	8	5	11	26	6	1	1	7	1	1		7	2		3	26
T US	1920-66	23	99	56	16650	1162	6662	34350	4708	12473	9156	8390	19449	10100	9158	5384	7660	3834	231	64	1434	1768	406	5063	4580
	1960-66	23	85	33	5662	442	1945	10347	1907	4418	3170	3863	5832	4300	2745	1753	2305	1475	133	62	600	861	208	1450	1356
FOR,N REG,N OF BACH INST.																										
CANA	1920-66	2	1	1	761	52	199	902	268	190	143	222	700	300	457	332	160	37	1	1	10	20	8	111	63
	1960-66	2			216	14	55	270	82	62	55	99	201	126	115	72	43	11	1	1	2	6	5	35	14
C AM	1920-66	1			27	5	7	42	13	9	9	14	29	16	16	14	9	3	1		2	7	1	7	4
	1960-66	1			17	3	5	26	7	4	8	10	16	11	9	9	4	2	1		1	4	1	4	2
S AM	1920-66				57		8	55	12	16	14	22	55	19	14	10	10	5	1		2	2	1	20	7
	1960-66				30		7	29	9	7	11	14	38	13	5	5	7	4	1		2			2	2
N EU	1920-66		1		406	35	140	499	109	171	65	80	296	125	115	103	60	28			7	16	4	94	49
	1960-66		1		155	21	68	199	52	80	35	49	130	57	41	43	29	14			3	11	2	41	24
UK	1920-66		1		195	16	90	204	72	74	23	34	139	47	40	39	25	9			1	5	2	41	17
	1960-66		1		86	13	45	94	39	47	12	24	67	24	20	18	15	5				5	1	19	7
GER	1920-66				64	8	16	107	18	31	22	16	57	38	34	22	8	9			3	5	1	19	9
	1960-66				24	4	8	36	8	8	14	10	22	21	10	7	5	3			1	4		11	6
S EU	1920-66			1	138	7	29	203	15	59	27	35	82	36	19	19	17	15			1	9	3	23	42
	1960-66				59	6	7	77	3	32	17	20	42	17	8	4	7	11				4	1	8	20
FR	1920-66				73	3	15	94	8	26	8	16	26	18	4	11	4	5			1	1	2	9	9
	1960-66				22	2	5	29	1	13	4	6	8	8	2	1	1	3					1	2	5
IT	1920-66				9	1	7	39	2	13	3	8	20	5	4	1	3	4				2		4	23
	1960-66				2	1		18	1	6	2	6	12	2			2	3				1		1	10
GR	1920-66				36	1	4	40	2	14	10	9	31	11	4	4	4	2				3	1	4	
	1960-66				22	1	2	22		10	6	7	20	6	2	1	2	1				2		2	
E EU	1920-66				78	1	31	163	24	56	20	28	57	29	13	13	5	5			3	3	2	15	26
	1960-66				25		8	66	17	27	17	16	31	13	2	9	1	1				1	2	5	11
AFRI	1920-66			1	43		8	49	19	8	11	11	33	17	27	11	7				1	2		7	1
	1960-66			1	18		2	17	7	6	7	9	19	13	15	4	5				1	1		4	1

Doctorates Granted by State of Doctoral Institution

VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.	State of Baccalaureate Institution
8	1	56	1	9	55	6	67	21	18	35	593	35	160			1	23	8	2	3		7	8	85				2060	LA
5	1	21		8	39	1	26	16	16	28	299	19	76				9	5	2	2		3	5	41				901	
9	2	40	2	7	21	12	50	5	7	18	39	860	174		2	6	76	11	13	4		24	23	175				2770	OKLA
6		22	2	5	11	10	18	5	5	12	16	531	93		2	3	43	7	10	2		10	14	69				1319	
24		121	4	11	49	12	110	15	7	28	147	156	3237	3	1	11	153	29	26	14		29	23	371				7220	TEX
7		53	4	6	34	5	45	8	6	23	86	106	1551	3	1	6	71	27	22	10		17	10	151				3172	
		12				1	1			1	2	5	9	53	1	4	17	1	5	15		54	39	104		1		866	MONT
		10				1	1			1	2	1	5	41	1	3	12	1	5	7		29	24	30		1		314	
		11		1	1		4				3	6	7	1	11	5	23	1	11	20		68	54	99		1		676	IDA
		3			1						2	5	4	1	11	5	12	1	7	16		28	29	39		1		282	
2		1			1		1				2	2	7			31	16		5	7		13	11	34				312	WYO
2					1						1		4			21	14		5	4		4	8	13				130	
3		28	1	6	17	3	16	3	2	1	7	25	49	3		24	656	13	23	24		62	51	366	1			2937	COLO
3		15	1	4	10	2	9	3	2		5	16	25	3		14	335	11	15	9		29	34	161				1166	
3		5	1	1	8		3	1		1	4	14	33			2	42	73	13	8		9	9	86			1	592	N M
3		2	1		5		1			1	3	11	20			1	26	54	10	6		5	7	33			1	293	
4		15			6		4			1	7	3	22	1		1	23	3	113	10		7	14	172			1	746	ARIZ
1		10			3		1			1	5	3	14			1	12	2	98	4		4	10	63				368	
5		29		2	5	3	7	1			9	14	30	4	2	6	55	9	18	693		100	76	536				3128	UTAH
2		8		1	4	2	6				3	10	18	4	2	4	40	5	14	430		53	57	174				1320	
		3			1						2	2	1				4	3	2	6	1	6	8	43	2			144	NEV
		1			1							2					2	2	2	5	1	1	5	19	2			64	
4		25		1	9	4	6			1	7	8	29	3	5	5	52	5	16	12		1119	176	555		6		3688	WASH
1		13		1	4	3	2			1	3	3	11	3	5	4	25	1	13	9		447	123	198		6		1316	
3	1	18		1	12	1	9				4	6	25	3	3	6	51	2	11	15		209	460	493	1	1	2	2559	OREG
1		10		1	8		5				2	6	11	3	3	2	33	1	9	7		102	248	170	1	1		1008	
21		65		6	43	4	20	3		2	25	19	111	3	5	10	154	26	72	55	1	306	232	9544	2	12	7	14985	CAL
7		36		6	29	3	11	3			16	11	54	2	5	7	90	21	59	37	1	192	135	3591	2	6		5919	
							1				1		1				2		1	1		1	1	8	3			36	ALAS
							1				1		1				2			1		1	1	4	2			23	
		3									1		1				4	1		3		8	5	27		12		223	HAWA
		2											1					1		2		4	2	12		9		102	
		10			7		2	1			9	1	16				1			1				8			1	282	P R
		5			4		1				3	1	10							1				4			1	113	
2	1	11	2		7	5	18				8	5	32	1		3	27	2		9		10	5	96			3	2216	UNK
		2	2		5	5	5				5	2	10	1			11	2		6		4	1	53				823	
1605	240	507	176	824	2219	724	2645	562	248	381	1652	1831	5497	124	45	285	3144	354	636	1114	5	2937	1727	20527	18	71	129	217087	T US
629	109	854	123	614	1414	342	1104	432	215	294	870	1151	2676	108	45	177	1633	245	533	674	5	1382	987	8293	15	57	22	80978	
																													FOR,N REG,N OF BACH INST.
30	2	67	1	5	15	2	13	1		1	9	13	37	2		4	22	2	4	25		149	103	607		4	3	6062	CANA
11		31	1	4	8	1	8	1		1	4	7	19	2		2	14	2	3	15		58	58	214		4		1955	
2		8			7		1				13	1	8				1	1		1			1	30			1	311	C AM
2		6			7		1				10	1	4							1				22			1	200	
5		9		2	6	1	2				14	1	7				1					9	3	65		1		456	S AM
5		7		2	6	1	1				13	1	5				1					7	2	44		1		282	
8		37	1	8	20	6	7	4		2	11	8	40	1		1	22	6	4	10		55	27	403		2	1	3087	N EU
4		28	1	7	16	3	6	4		1	8	6	29	1		1	10	4	4	8		30	17	215		1		1459	
4		20	1	4	9	3	6	2			2	4	15	1			10	3	1	2		25	15	188		1	1	1391	UK
3		15	1	4	8	1	6	2			1	3	13	1			4	1	1	1		14	11	120				752	
3		7		2	5	3		2		1	4	1	12			1	3	2	2	4		9	1	67				616	GER
1		4		2	5	2		2		1	4	1	8			1	2	2	2	4		6	1	30				280	
2		5		2	7		3	1	1		16	1	12	1			16	2				6	7	146				1008	S EU
		3		2	6		3		1		12	1	5	1			13	2				3	6	92				493	
1		2			1			1			4		6	1			9					1	1	64				424	FR
		1			1						3		2	1			7						1	36				165	
1					1						2	1	1				3	2				3	2	27				191	IT
											2	1					3	2				1	2	17				95	
		3		2	3		3		1		5		4				2					2	4	44				253	GR
		2		2	3		3		1		3		3				1					2	3	32				161	
3		3			4		3				2		4				12		1	2		3	4	51				664	E EU
1		2			3		1				2		2				6		1	1		2	3	24				300	
4		9			2						1	1					5		3			1	3	69			1	355	AFRI
2		5			2							1					5		2			1	1	51				200	

APPENDIX D
continued

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution: MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA
N E	1920-66	1		159	17	28	353	54	104	124	112	213	177	91	83	61	29		2	11	33	5	79	62	
	1960-66	1		80	15	18	182	27	69	75	71	117	111	48	43	27	22		2	10	20	5	31	38	
EGY	1920-66			53	2	6	111	22	40	60	45	89	69	53	47	35	19			3	21	4	40	21	
	1960-66			22	2	1	55	13	24	34	30	42	41	27	23	13	14			3	12	4	13	17	
ISR	1920-66			49	5	12	114	9	29	23	7	41	21	6	6	3	1			1	2	1	13	1	
	1960-66			37	5	8	67	6	20	18	6	27	16	3	5	3				1	2	1	9	1	
TRK	1920-66			28	3	4	39	6	8	8	15	23	20	3	6	7	3			3	1		7	4	
	1960-66			9	3	3	19	4	5	4	5	12	12	3	4	2	2			3	1			2	
OTH	1920-66	1		29	7	6	89	17	27	33	45	60	67	29	24	16	6		2	4	9		19	36	
	1960-66	1		12	5	6	41	4	20	19	30	36	42	15	11	9	6		2	3	5		9	18	
INDI	1920-66		5	198	14	58	387	54	199	182	174	356	210	237	146	93	89	4	1	17	73	1	69	48	
	1960-66		3	115	14	30	197	34	139	132	119	247	133	138	88	58	65	3		12	46		35	33	
PAKI	1920-66			26	1	3	44	2	23	27	42	31	18	15	17	7	8			3	12		5	8	
	1960-66			11	1	2	18	1	13	20	37	14	10	8	6	4	5			1	9			6	
CHIN	1920-66		5	236	28	64	432	54	177	110	88	383	205	129	122	122	55	3	1	10	29	3	62	24	
	1960-66		4	55	18	24	146	29	74	47	39	126	62	50	48	41	22	1	1	4	23	1	27	4	
JAP	1920-66			52	5	29	99	12	44	26	26	54	30	22	15	12	16			2	5	3	24	11	
	1960-66			37	4	16	66	8	37	14	16	31	21	10	7	9	9			2	4	3	12	7	
KOR	1920-66		2	18	10	6	30	13	25	20	14	26	23	20	28	9	9			3	3	1	6	9	
	1960-66		2	16	8	4	22	11	20	18	12	21	20	13	23	9	7			2	3	1	5	6	
OTH	1920-66		4	33	1	8	59	3	21	14	42	42	18	29	3	2	12	1			3	1	10	8	
	1960-66		4	16	1	2	38	2	15	9	33	24	10	21	2	2	4	1			2	1	5	6	
AUS	1920-66			96	4	28	94	17	21	14	18	53	17	30	20	34	8			3	1		12	6	
	1960-66			51	3	16	45	9	16	3	13	32	15	12	8	22	2			1			7	2	
PHIL	1920-66			30	1	23	114	7	15	18	42	51	73	23	13	32	9			5	10		22	25	
	1960-66			14	1	10	48	6	12	12	21	27	37	13	5	13	6			3	5		9	16	
T FR	1920-66	4	18	3	2358	181	669	3525	676	1138	824	970	2461	1313	1257	949	640	328	11	5	80	228	33	566	394
	1960-66	4	14	1	915	109	274	1446	304	613	480	578	1116	669	508	376	281	185	8	4	44	139	22	230	193
TOT	1920-66	27	117	59	19008	1343	7331	37875	5384	13611	9980	9360	21910	11413	10415	6333	8300	4162	242	69	1514	1996	439	5629	4974
	1960-66	27	99	34	6577	551	2219	11793	2211	5031	3650	4441	6948	4969	3253	2129	2586	1660	141	66	644	1000	230	1680	1549

NOTE The state of the doctoral institution was unknown for 23 of the doctorate recipients in this appendix. Appendix E reports only 3 unknown because an edit of the data located the institutions of 20 doctorates after Appendix D had been printed.

APPENDIX D Supplement

Migration, Region by Region, From Baccalaureate to Doctorate, 1920 - 1966 and 1960 - 1966

Region of Baccalaureate	Year of Doctorate	Doctorates Granted by Region of Doctoral Institution: NEW ENGLAND	MID-ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNKNOWN	TOTAL
N E	1920-66	10298	5111	3229	722	1325	102	207	172	1417	7	22590
	1960-66	3399	1771	1251	241	547	53	103	111	759		8235
M A	1920-66	4998	27941	6425	1406	3285	222	406	401	2088	11	47183
	1960-66	1911	9475	2594	553	1352	117	214	249	1018	4	17487
ENC	1920-66	3239	5890	28938	3279	2195	341	604	766	2845	67	48164
	1960-66	1070	1655	10005	1136	852	156	316	446	1286	8	16930
WNC	1920-66	1377	2694	5684	10758	1155	236	679	1065	1901	20	25569
	1960-66	362	600	1857	3839	415	97	396	567	720	6	8859
S A	1920-66	1370	3436	3023	680	8338	663	495	158	643	3	18809
	1960-66	434	1029	1055	206	3203	339	273	99	307	1	6946
ESC	1920-66	453	1058	1946	494	1226	2062	515	93	267	5	8119
	1960-66	138	263	672	163	574	1063	282	58	122		3335
WSC	1920-66	707	1129	2148	987	776	429	5874	419	793	1	13263
	1960-66	219	313	793	388	353	201	3093	244	340	1	5945
MTN	1920-66	526	1146	1953	994	373	50	269	2062	2026	2	9401
	1960-66	171	315	660	313	145	28	162	1279	863	1	3937
PAC	1920-66	1495	2014	2453	895	628	48	241	527	13181	9	21491
	1960-66	453	632	943	323	265	28	121	346	5257		8368
PR	1920-66	12	113	75	18	24	3	26	2	8	1	282
	1960-66	2	38	31	8	13	1	14	1	4	1	113
UNK	1920-66	177	999	379	142	295	23	45	42	111	3	2216
	1960-66	31	581	49	19	38	10	17	20	58		823
T US	1920-66	24652	51531	56253	20375	19620	4179	9361	5707	25280	129	217087
	1960-66	8190	16672	19910	7189	7757	2093	4991	3420	10734	22	80978
T FR	1920-66	3233	5339	6825	2241	1772	158	746	470	3353	7	24144
	1960-66	1317	2363	3351	1037	987	112	524	333	1860	1	11885
TOT	1920-66	27885	56870	63078	22616	21392	4337	10107	6177	28633	136	241231
	1960-66	9507	19035	23261	8226	8744	2205	5515	3753	12594	23	92863

Doctorates Granted by State of Doctoral Institution

State of Baccalaureate Institution	VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.
N E	14	3	47	2	11	24	6	13	2	3	1	48	27	74			2	33	3	15	34		26	26	295				2507
	10	3	34	2	9	15	2	9	2	1	1	35	23	46			1	22	3	14	26		17	17	188				1492
EGY	4	2	23		6	13	3	3	1	2	1	29	10	41				15	3	11	18		8	16	140				1089
	3	2	14		6	6		2	1		1	21	9	30				10	3	10	17		4	7	87				623
ISR			1										1	3				2		1			3		61				416
			1										1	2				2		1			2		53				297
TRK	2		7			4	1						3	3			1	1					1		18				229
	1		6			3							3	3				1					1		9				120
OTH	8	1	16	2	5	7	2	10	1	1		19	13	27			1	15		3	16		14	10	76				773
	6	1	13	2	3	6	2	7	1	1		14	10	11			1	9		3	9		10	10	39				452
INDI	15	6	79		15	53	5	17	4	6	4	56	29	73	5	5	3	39	8	11	30		63	51	299	2	8		3501
	11	3	46		13	45	5	15	3	3	2	39	26	53	5	5	3	27	7	8	26		39	38	207	2	7		2279
PAKI	1		12			8		2	1			11	5	33			1	7	2		5		15	4	29		4		432
	1		9			5		2				8	3	26				5	2		4		13	4	22		4		274
CHIN	23	12	22	3	14	22	7	13	1			19	24	63	2	1	2	31			19		58	28	277		1		2984
	17	9	16	3	7	18	5	8	1			7	20	48	2	1		17			15		13	9	128		1		1191
JAP	1		6		1	1	1	3	1	1	1	4	1	11				6			3		12	6	78	2	2		628
	1		4		1	1	1	2	1	1	1	1	1	9				4			1		8	5	60	1	2		418
KOR	4		11		3	13	3	4	1			6	4	7				2	1	1	8		10	3	20			1	377
	3		9		3	12	3	3	1			3	4	6				1	1	1	5		10	3	17				308
OTH	5		8		5	6	8	2	1		1	6	2	12			1	14			6		4	15	40		3		453
	5		4		5	5	6	2	1		1	2	2	10				11			4		4	14	30		3		307
AUS	1		25		1	3	1	2				4		3	1			4			5		9	11	125		6		677
	1		16		1	1		1				2		2	1			3			4		7	6	74		5		381
PHIL			14		1	10	2	2	1			7	2	6				8		3			6	2	60		5		642
			12		1	9	1	1	1			6	2	3				3		2			5	1	36		5		346
T FR	118	23	362	7	68	201	42	87	18	11	10	227	119	390	12	6	14	223	25	42	148		425	294	2594	4	36	7	24144
	74	15	232	7	55	159	28	63	15	6	7	152	98	267	12	6	7	142	21	35	110		216	184	1424	3	33	1	11885
TOT	1723	263	1869	183	892	2420	766	2732	580	259	391	1879	1950	5887	136	51	299	3367	379	678	1262	5	3362	2021	23121	22	107	136	241231
	703	124	2086	130	669	1573	370	1167	447	221	301	1022	1249	2943	120	51	184	1775	266	568	784	5	1598	1171	9717	18	90	23	92863

APPENDIX E Supplement

Migration, Region by Region, From Doctorate to First Postdoctoral Job, 1960 - 1966

Region of Doctoral Institution	Doctorates Granted by Region of First Postdoctoral Job											
	NEW ENGLAND	MID-ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNKNOWN	FOREIGN	TOTAL
N E	2972	1184	670	196	668	90	148	141	709	1829	900	9507
M A	1064	8481	1244	336	1346	221	253	254	925	3595	1316	19035
ENC	879	2221	7948	1132	1654	539	705	694	1739	3899	1863	23273
WNC	198	485	1124	2463	481	193	386	353	569	1382	592	8226
S A	288	758	596	229	3610	438	349	131	343	1462	541	8745
ESC	30	74	137	76	415	848	188	37	43	291	66	2205
WSC	85	142	272	314	348	238	2381	193	253	1040	251	5517
MTN	56	148	304	351	163	42	180	1184	418	731	180	3757
PAC	449	780	760	299	457	79	213	592	5631	2019	1316	12595
UNK	1		1									3
TOTAL	6022	14273	13056	5396	9142	2688	4803	3579	10630	16[illegible]	[illegible]	92863

APPENDIX E

Migration, State by State, from Doctorate to First Postdoctoral Job, FY 1960 - 1966

State of Doctoral Institution	Doctorates Granted by State of First Postdoctoral Job																								
	MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA	VIRGINIA
ME	6			3			3	2	3		1												1		
N H	3	8	1	8	1	2	5	3	10	1	1	2	3		1							1	7		2
VT		2	5	3	1	2	1	2	2	1			1	1			1					1			1
MASS	50	51	17	1849	51	133	387	174	168	93	67	148	87	52	42	25	39	2	4	7	23	36	87	157	47
R I	6	2	4	35	60	19	28	21	26	10	1	10	16	3	2		1					2	14	12	3
CONN	9	14	13	164	28	422	188	77	84	57	25	42	32	16	21	9	11		2	2	4	10	24	60	25
NY	40	37	40	326	41	211	4152	757	354	184	84	225	128	85	58	29	56	6	10	19	31	60	142	155	100
NJ	6	13	8	86	14	39	188	558	142	37	19	41	30	23	12	10	12	2	1	3	3	14	38	45	25
PA	9	11	9	113	17	44	311	271	1748	143	50	77	83	35	21	14	19	4	5	4	17	77	113	84	51
OHIO	6	4	3	49	5	39	154	69	126	1156	57	97	105	41	15	20	18	7	2	11	12	44	43	37	28
IND	14	10	3	96	8	46	197	101	128	195	762	222	125	93	47	54	62	10	15	17	50	27	60	52	46
ILL	7	13	3	159	18	58	381	145	168	181	193	1606	193	150	94	57	103	15	9	25	57	46	84	92	48
MICH	7	18	6	110	12	63	236	70	133	200	95	169	1301	87	58	50	39	10	4	13	42	22	63	57	28
WISC	10	9	4	71	12	16	145	73	95	97	61	128	96	538	69	47	36	7	11	14	32	17	46	43	23
MINN	4	5	3	29	2	17	80	27	36	52	31	74	55	65	497	26	29	16	17	13	16	15	34	35	6
IOWA	7	5	1	33	3	26	84	36	48	63	49	155	64	72	88	422	54	11	21	31	41	17	32	20	17
MO	3		2	23	3	7	53	6	29	36	23	95	37	33	11	31	441	5	5	11	36	10	17	13	7
N D	1						3		2	1	4	4	3	9	24	2	2	25	2	1	3		1		1
S D											2	3	1	3	1	8	2	1	14	5	2				
NEBR				4		3	15	3	5	17	11	13	11	17	14	34	17	3	6	184	21	6	5	4	1
KANS	3	2	1	9	1	1	24	18	16	36	23	26	19	17	12	7	55	3	4	13	176	6	12	8	8
DEL			1	10	1	2	10	17	24	2	1	2	3		1		2				1	39	9	2	3
MD	5	5	4	37	9	18	77	58	65	22	25	27	28	24	13	5	12	1		1	3	11	464	117	36
D C	3	7	3	30	5	10	70	20	55	37	15	26	15	26	16	9	12	1	3	1	8	2	189	372	43
VA	1	1	2	12	1	5	24	18	25	22	10	11	8	5	3	2	2	2	1		4	12	19	18	158
W VA		1		3			3	3	10	4	2			1			1			1	2	2	3	1	5
N C	4	2	3	38	5	8	77	20	47	48	18	37	25	14	11	13	24	1	3	5	9	13	36	23	98
S C				4	1			2	3	2	2	3	1	1		1				1	1		1	1	5
GA	1			8	1	1	21	7	3	3	7	9	5	5	1	5	2			2	1	5	7	5	14
FLA		5	2	19	2	8	47	25	27	32	15	27	17	9	2	3	25	1		1	10	9	17	18	22
KY				4	1		9	3	8	17	6	11	3	4	2	2	6	1	1	1	3	2	3	8	10
TENN	1	1		11	1	4	16	13	15	20	18	25	12	6	1	5	21		1	5	14	6	20	15	38
ALA	1		1	2	1	1	1	3	2	1	3	2	3	1	1	2	5		1			1	2	4	7
MISS					1		3	1			1		1	[illegible]	1		2	1							3
ARK				4		1	4			4	2	1			2	3	21	1		4	21		1		1
LA			2	10		3	9	2	16	10	8	19		[illegible]	6	2	10		1	2	5	2	12	7	20
OKLA				5	3	2	7	7	6	11	12	29	[illegible]	14	7	6	37	8	8	10	53	3	4	10	11
TEX	2	1		34	5	13	39	18	34	35	26	40	19	22	8	11	40	4	6	8	30	12	22	21	11
MONT							4			1		[illegible]	3	1	3	3	2		4	1			2	2	2
IDA							1			1		2	1	1	1		1				1	1	1		
WYO			1				5	1	2			5	2	3	4	3	4	5	9	2	6		1		
COLO	3	2	1	17	1	7	32	12	25	27	32	65	24	41	41	33	27	12	26	33	60	8	19	16	8
N M			2	2			7	1	4	2	1	6	2	5	2	2	3		1	3	7	2	6		2
ARIZ			1	5	1	1	11	7	7	6	9	12	3	7	5	2	7	1	3	4	7		5	8	4
UTAH	1			9		2	14	7	8	9	6	9	9	7	3	2	4	5	2	2	5	3	8	3	2
NEV																									
WASH	3	4	6	28	5	8	41	27	22	25	16	21	27	19	14	5	6	3	3	4	10	8	19	13	5
OREG	1	1	1	13	1	10	32	11	13	8	13	10	20	15	6	6	7	1	4	6	5	1	6	9	6
CAL	6	17	4	239	12	88	340	158	133	87	84	213	110	91	65	37	50	2	6	15	41	35	68	88	34
ALAS															1								2		
HAWA				2			2	1				1				1				1			1	2	
UNKNOWN						1								1											
TOTAL U.S.	223	251	157	3716	334	1341	7541	2855	3877	2996	1891	3752	2745	1672	1307	1008	1330	177	215	486	873	588	1770	1637	1015

Doctorates Granted by State of First Postdoctoral Job

WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	FOREIGN	TOTAL	State of Doctoral Institution
	2																									3	3	27	ME
				1			2			2	1	2				2					1		4			17	8	99	N H
	1																						5			3	1	34	VT
4	33	10	27	22	9	31	9	6		19	13	50	2	3	3	42	16	11	20	1	43	14	437	3	12	1325	616	6577	MASS
3	4		3	3	1	3	1			3		5				2	4	2	1		4	4	28			149	56	551	R I
2	24	4	17	18	5	10	8	5		3	12	38	3		1	12	10	2	3	1	14	15	122		3	332	216	2219	CONN
25	83	13	50	81	33	49	36	17	6	19	17	82	12	10	1	54	30	26	20	2	62	39	451	5	17	2389	834	11793	NY
4	24	3	8	13	9	14	6	2		7	5	23	1	1	1	12	12	2	3	1	6	5	117	1	3	330	229	2211	NJ
36	42	10	19	31	5	30	15	5	1	16	18	59	1	3	1	23	16	16	4	2	27	13	172	3	4	876	253	5031	PA
28	35	11	29	40	40	32	19	4	3	15	13	47	6	1		36	21	20	5	7	28	7	142		9	683	221	3650	OHIO
20	53	14	37	39	60	41	35	14	13	32	39	96	8	10	2	40	23	32	21	3	39	26	254	1	8	709	333	4442	IND
21	72	12	37	63	55	66	19	17	17	35	55	119	6	11	8	57	44	33	27	5	79	35	451	4	18	1074	614	6959	ILL
16	41	9	28	41	13	40	17	8	7	29	23	59	4	10	6	55	22	30	21	7	33	33	277	4	11	864	368	4969	MICH
8	38	14	14	28	14	27	11	7	7	23	8	65	14	9	2	32	22	15	14	5	62	38	168	3	9	569	327	3253	WISC
6	16	2	10	19	12	10	3	2	2	9	13	43	9	4	1	16	14	7	10	2	38	8	120	2	7	362	198	2129	MINN
9	23	8	11	26	18	27	14	9	6	21	17	70	8	10	18	41	18	27	9	4	38	15	136	3	8	409	183	2586	IOWA
4	10	4	10	19	24	10	9	9	9	16	18	49	5	1	2	15	5	20	6	1	17	8	69	1	4	279	99	1660	MO
						2	1			1	1	2	3		1	1		1	1		3		5			27	4	141	N D
	1			1		1	2		2		1							1	1	1		1	1		1	6	4	66	S D
1	3		3	1	2	5	3	4	2	1	4	9	2	2		18	4	6	1	3	11	6	18	1	1	106	33	644	NEBR
	5	3	3	8	5	9	8	4	10	17	23	40	5	6	3	17	12	7	3	1	8	3	35	1		193	71	1000	KANS
2	1					2	1			2	4	1		1		2	1				1		3			67	12	230	DEL
6	19	10	13	20	7	14	9			10	2	22	5	2	1	3	9	3	2	1	12	5	70		6	231	131	1680	MD
	7	6	7	9	9	5	4	2	4	10	2	15	4			7	3	1	2	1	4	1	52		3	308	105	1549	D C
7	27	18	13	19	8	22	13	4	2	15	3	15	2			1	4	1		1	2	1	17			105	37	703	VA
39	2	1	3	2	1		2			1		1			1											23	6	124	W VA
8	483	73	62	45	15	54	24	17	3	43	4	47	3	2	1	13	6	16	3		11	11	54	1	5	338	162	2086	N C
	11	38	6	4	2	6	2	2			1	7								1			1			18	2	130	S C
4	27	27	212	22	9	41	19	15	3	12	2	29				1	2				4	3	13			79	32	669	GA
3	62	31	82	400	18	38	46	27	7	30	7	45	2		1	7	8	6		1	6	1	54	1	1	293	54	1574	FLA
7	10	6	4	5	116	20	5	1		1	2	8			1	5	4	2			3		2	1		52	10	370	KY
12	62	18	37	35	33	327	34	14	12	19	13	41		1		6	5	3	4		2	1	30	1	1	141	46	1167	TENN
1	10	13	38	13	7	21	144	28	6	25	4	14				3			1				2			66	6	447	ALA
1	8	2	9	5	4	15	7	72	5	25		13						1		1						32	4	221	MISS
1	4	3	2		3	9	3	9	66	21	11	38		1	2		5	3			1		6			40	3	301	ARK
	10	14	19	14	11	27	15	27	14	287	11	69	1	1		8	3	4			7	1	30	1	3	208	80	1024	LA
4	7	5	18	12	8	11	13	12	29	31	352	125	3		1	17	20	7	5	2	5	4	27		2	231	38	1249	OKLA
7	36	12	15	28	11	36	24	19	27	82	70	1148	3	6	3	28	42	15	9	4	20	14	122	4	6	561	130	2943	TEX
	1		2								4	2	30	4				2	3		9	1	11	1		13	7	120	MONT
						1					1	1		7		1		1			8	2	2			15	1	51	IDA
	1		2			1				1	3	7	4	5	45	15	1	1	1	2	5	3	6		1	22	6	185	WYO
4	16		5	8	9	9	5	3	6	9	20	66	11	11	19	380	34	23	19	7	37	28	114	3	8	263	86	1775	COLO
	1	1	1	1	2		2		1		3	18	2	2	1	9	93	1	1	2	3	2	13		2	40	8	269	N M
	1	1	1	4	2	2			1	5	2	12	3	5	3	13	19	116	6	13	6	8	53	1	2	154	19	568	ARIZ
	4		2	4	1	3	2				10	7	5	15	4	19	9	6	204	4	17	4	60		8	224	52	784	UTAH
												1			1	1				1							1	5	NEV
5	8	2	5	9	3	8	2		1	5	5	23	18	34	3	30	15	15	12	8	360	69	205	9	5	234	163	1598	WASH
	7		2	8	4	2	3		2	4	3	12	18	12	2	20	9	12	27	3	84	254	146	1	6	187	137	1171	OREG
4	43	8	14	41	11	30	11	4	2	23	20	111	16	24	7	89	55	72	71	17	152	126	4121	8	48	1576	991	9718	CAL
																2								10		3		18	ALAS
	3		1			1				1		1						1			1	1	3		22	19	25	90	HAWA
																										1		3	UNK
302	1381	406	881	1162	599	1112	608	369	276	930	840	2757	219	214	146	1155	620	570	540	115	1273	810	8229	74	244	16249	7025	92863	TOT

APPENDIX F

Field Changes From Baccalaureate to Doctorate and From Master's Degree to Doctorate, FY 1958 - 1966

Field of Baccalaureate	Doctorates by Field															
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL
PHYSICAL SCIENCES, TOTAL	33399	3626	6215	9990	2331	11237	2886	138	265	2069	264	16	134	887	350	36
MATHEMATICS	3470	2851	289	70	70	190	120	3	5	81	9	1	21	295	121	7
PHYSICS AND ASTRONOMY	5867	307	4952	50	140	418	230	6	15	183	9	4	13	81	42	5
CHEMISTRY	9889	40	119	9387	88	255	2354	93	225	1731	222	5	78	143	87	7
EARTH SCIENCES	1974	9	12	8	1910	35	33	8	1	1	8	3	12	65	8	11
ENGINEERING	12199	419	843	475	123	10339	149	28	19	73	16	3	10	303	92	6
BIOLOGICAL SCIENCES, TOTAL	730	40	16	534	88	52	14074	3668	1543	2382	3682	317	2482	821	256	24
AGRICULTURE AND FORESTRY	185	12	1	116	25	31	4650	3117	136	463	629	67	238	457	10	
HEALTH SCIENCES	331	8	7	311	1	4	1714	52	1045	309	256		52	86	55	6
BIOCHEM, BIOPHY, PHYSIOLOGY, BIOSTAT	36	3	2	24	3	4	506	11	40	381	50	2	22	20	15	
ANAT, CYTOL, ENTOMOL, GENETIC, MICROBIO, EMBRY	16	1		13	1	1	1079	42	29	72	901	3	32	11	6	2
ECOLOGY, HYDROBIOLOGY	1				1		38	2		4	1	21	10	3		
BOTANY, ZOOLOGY BIOLOGY GENERAL	161	16	6	70	57	12	6086	444	293	1152	1845	224	2128	244	170	16
SOCIAL SCIENCES, TOTAL	120	62	8	16	17	17	167	26	28	55	32	2	24	11640	5608	439
PSYCHOLOGY	34	17	3	8	2	4	81	3	10	37	19		12	5357	5135	23
ANTHROPOLOGY AND ARCHEOLOGY	3	2			1		8			1	5		2	339	10	308
SOCIOLOGY	7	3	1	1	1	1	17	2	6	3	2		4	1151	195	39
ECONOMICS AND ECONOMETRICS	52	32	3	5	4	8	36	17	5	11	3			2365	88	18
POLITICAL SCIENCE & INTERNATIONAL RELATION	13	5	1	1	2	4	2		1		1			1637	61	19
ARTS AND HUMANITIES, TOTAL	339	79	79	91	49	41	279	27	41	87	59	4	61	2308	917	172
HISTORY	21	4	2	7	6	2	47	6	8	9	11		13	681	136	48
ENGLISH AND AMERICAN LANGUAGE AND LITERATURE	37	10	8	6	8	5	58	3	10	18	11	1	15	522	270	38
MODERN FOREIGN LANGUAGE AND LITERATURE	26	7	2	6	7	4	25	2	4	4	11		4	146	62	9
CLASSIC LANGUAGES AND LITERATURE	17	3	5	6	2	1	11	1	1	2	3		4	77	21	19
PHILOSOPHY	79	23	23	23	8	2	38	4	1	16	8	1	8	440	210	27
SPEECH AND DRAMATIC ARTS	2	1				1	5	1	2	1	1			50	34	
FINE ARTS AND MUSIC	22	8	5	6	1	2	11	1	2	4	2		2	108	65	11
PROFESSIONAL FIELDS, TOTAL	367	49	66	96	38	118	348	37	50	104	77	12	68	1195	284	25
BUSINESS ADMINISTRATION	48	21	2	2	7	16	23	5	8	5	3		2	658	112	4
RELIGION AND THEOLOGY	9	2	4	3			13	1		1	5	1	5	94	49	6
EDUCATION	269	99	34	99	14	23	556	178	38	98	95	21	126	731	385	14
UNKNOWN FIELDS	726	107	208	214	40	157	369	56	41	97	62	3	110	567	175	30
ALL FIELDS, TOTAL	35950	4062	6626	11040	2577	11645	18679	4130	2006	4892	4271	375	3005	18149	7975	740

Doctorates by Field

SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Field of Baccalaureate
48	289	86	326	69	60	58	7	91	24	13	364	247	51	1327	39189	PHYSICAL SCIENCES,TOTAL
21	119	12	101	15	12	20	2	38	10	3	56	26	21	666	4708	MATHEMATICS
5	21	4	51	12	10	10		16	3		39	19	6	122	6390	PHYSICS AND ASTRONOMY
8	21	11	79	7	17	19	4	20	4	6	44	14	9	368	12877	CHEMISTRY
2	13	3	16	7	4			3	2		10	7		32	2130	EARTH SCIENCES
12	115	56	79	28	17	9	1	14	5	4	215	181	15	139	13084	ENGINEERING
71	416	22	104	14	30	22	2	14	14	6	68	25	12	993	16790	BIOLOGICAL SCIENCES,TOTAL
30	397	7	6	1	1	1	1	1	1		29	13	1	278	5605	AGRICULTURE AND FORESTRY
17	3	2	28	3	8	4	1	4	6	2	13	7	2	149	2321	HEALTH SCIENCES
2	1	1	4		1	3					2			20	588	BIOCHEM, BIOPHY, PHYSIOLOGY,BIOSTAT
	2	1	4		2	1		1			2		1	15	1127	ANAT,CYTOL,ENTOMOL, GENETIC,MICROBIO,EMBRY
	2														42	ECOLOGY,HYDROBIOLOGY BOTANY,ZOOLOGY
22	11	11	62	10	18	13		8	7	4	22	5	8	531	7106	BIOLOGY GENERAL
1120	2241	1629	786	374	101	84	13	66	110	31	551	313	166	2427	15691	SOCIAL SCIENCES,TOTAL
113	17	23	140	20	30	12	3	24	46	4	92	32	52	817	6521	PSYCHOLOGY
10	2	4	27	2		13	2		1	9	2		2	15	394	ANTHROPOLOGY AND ARCHEOLOGY
756	15	37	52	18	9	7	1	4	10	1	63	14	46	282	1572	SOCIOLOGY
74	2028	114	100	37	30	7		10	12	3	255	220	16	298	3106	ECONOMICS AND ECONOMETRICS
47	123	1350	257	155	21	28	3	19	21	9	91	31	26	292	2292	POLITICAL SCIENCE & INTERNATIONAL RELATION
293	235	513	12521	3001	3684	2099	438	928	1190	1110	1109	109	789	4188	20744	ARTS AND HUMANITIES,TOTAL
73	95	269	2879	2582	91	68	22	49	24	32	264	35	175	1293	5185	HISTORY
60	26	75	4200	150	3257	335	24	78	261	64	296	27	184	1291	6404	ENGLISH AND AMERICAN LANGUAGE AND LITERATURE
10	14	34	1705	48	75	1497	26	19	14	22	46	3	20	230	2178	MODERN FOREIGN LANGUAGE AND LITERATURE
8	11	14	486	31	40	69	302	26	9	7	64	1	57	106	761	CLASSIC LANGUAGES AND LITERATURE
86	41	58	1088	123	125	52	48	711	15	7	332	15	299	274	2251	PHILOSOPHY
5		9	857	5	14	6	1	3	811	14	21	3	14	189	1124	SPEECH AND DRAMATIC ARTS
11	3	11	1063	14	21	24	5	11	40	945	20	5	8	633	1857	FINE ARTS AND MUSIC
99	538	195	560	173	123	94	25	54	56	23	1774	1064	299	1200	5444	PROFESSIONAL FIELDS,TOTAL
31	453	43	124	43	29	17		15	12	6	1064	1021	11	481	2398	BUSINESS ADMINISTRATION
30	1	4	173	53	15	29	21	27	20	5	272	1	267	183	744	RELIGION AND THEOLOGY
81	133	54	657	160	127	74	10	16	151	116	143	56	36	7977	10333	EDUCATION
48	148	129	509	130	126	127	19	67	15	21	198	55	75	285	**2654**	UNKNOWN FIELDS
1760	4000	2628	15463	3921	4251	2558	514	1236	1560	1320	4207	1869	1428	18397	**110845**	ALL FIELDS,TOTAL

APPENDIX F
continued

Field of Master's Degree	Doctorates by Field															
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM.BIOPHYS, PHYSIOL. BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL
PHYSICAL SCIENCES,TOTAL	24052	3029	4190	4817	1958	10058	695	60	64	512	29	4	26	168	53	3
MATHEMATICS	3050	2828	75	7	10	130	43	1	3	38		1		74	20	1
PHYSICS AND ASTRONOMY	4171	68	3853	24	47	179	85	3	4	68	1		9	9	6	1
CHEMISTRY	4779	4	18	4679	22	56	505	41	49	381	25	1	8	12	8	
EARTH SCIENCES	1882	3	9	4	1843	23	17	6	1	1	2	2	5	15	1	1
ENGINEERING	10170	126	235	103	36	9670	45	9	7	24	1		4	58	18	
BIOLOGICAL SCIENCES,TOTAL	274	16	7	199	28	24	13539	3553	1508	2610	3307	300	2261	167	31	6
AGRICULTURE AND FORESTRY	78	7	1	51	8	11	4034	3285	51	277	228	46	147	101	1	
HEALTH SCIENCES	87	1	1	81		4	1704	12	1255	267	147	1	22	46	23	4
BIOCHEM, BIOPHY, PHYSIOLOGY,BIOSTAT	65	4	4	53	3	1	1814	31	84	1565	85	4	45	5	3	1
ANAT,CYTOL,ENTOMOL, GENETIC,MICROBIO,EMBRY	18	4		9	1	4	2533	54	53	105	2254	14	53	2	1	
ECOLOGY,HYDROBIOLOGY	2					2	162	8	2	13	7	107	25	2		
BOTANY,ZOOLOGY BIOLOGY GENERAL	24		1	5	16	2	3292	163	63	383	586	128	1969	11	3	1
SOCIAL SCIENCES,TOTAL	46	21	1	4	8	12	46	9	10	13	9	1	4	12554	5465	425
PSYCHOLOGY	12	7		3		2	11		2	7	2			5373	5305	8
ANTHROPOLOGY AND ARCHEOLOGY	1				1		7				5		2	393	5	375
SOCIOLOGY	4	1				3	8		5		1		2	1274	68	16
ECONOMICS AND ECONOMETRICS	20	12		1	2	5	13	8		4	1			2593	13	3
POLITICAL SCIENCE & INTERNATIONAL RELATION	2	1	1				2	1		1				1874	18	6
ARTS AND HUMANITIES,TOTAL	73	21	19	18	5	10	14	1	1	6	2		4	423	139	33
HISTORY	4		1	1	1	1								153	15	7
ENGLISH AND AMERICAN LANGUAGE AND LITERATURE	4	1		2	1		3		1	1			1	68	29	6
MODERN FOREIGN LANGUAGE AND LITERATURE	4	2		1		1	1						1	32	8	6
CLASSIC LANGUAGES AND LITERATURE	1	1												19	8	6
PHILOSOPHY	40	12	16	8	2	2	8			4	2		2	97	40	4
SPEECH AND DRAMATIC ARTS	1					1	1	1						24	21	
FINE ARTS AND MUSIC	8	5	1		1	1	1			1				24	15	4
PROFESSIONAL FIELDS,TOTAL	132	21	7	52	6	46	66	5	16	24	6	2	13	591	81	4
BUSINESS ADMINISTRATION	53	13	1	2	2	35	15	2	9	2	1		1	407	27	
RELIGION AND THEOLOGY	8		1	2	2	3	6	1	1	1	1		2	68	35	2
EDUCATION	105	38	11	41	7	8	235	44	18	54	31	12	76	664	466	12
NO MASTER-UNK FLD	11268	916	2391	5909	565	1487	4084	458	389	1673	887	56	621	3582	1740	257
ALL FIELDS,TOTAL	35950	4062	6626	11040	2577	11645	18679	4130	2006	4892	4271	375	3005	18149	7975	740

Doctorates by Field

SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Field of Master's Degree
12	69	13	52	11	5	11	2	20	3		82	55	2	323	25372	PHYSICAL SCIENCES,TOTAL
8	41	2	20	1	2	6	1	7	3		13	8	2	196	3396	MATHEMATICS
		1	14	4	1	1		8			7	1		26	4312	PHYSICS AND ASTRONOMY
2		1	6			3	1	2			8	3		59	5369	CHEMISTRY
1	3		6	4	1			1			5	2		16	1941	EARTH SCIENCES
1	25	9	6	2	1	1		2			49	41		26	10354	ENGINEERING
25	87	8	13	1	3	3		2	2		28	6	4	322	14343	BIOLOGICAL SCIENCES,TOTAL
9	84	3	1			1					5	3		81	4300	AGRICULTURE AND FORESTRY
14		2	6	1	1			1	2		14	3	3	100	1957	HEALTH SCIENCES
	1										5		1	9	1898	BIOCHEM, BIOPHY, PHYSIOLOGY,BIOSTAT
		1												15	2569	ANAT,CYTOL,ENTOMOL, GENETIC,MICROBIO,EMBRY
1															166	ECOLOGY,HYDROBIOLOGY
1	2	2	6		2	2		1			4			116	3453	BOTANY,ZOOLOGY BIOLOGY GENERAL
1331	2581	1907	284	176	18	29	11	16	19	7	227	149	38	1336	14493	SOCIAL SCIENCES,TOTAL
37	3	5	27	3	4	1		6	11	1	30	12	14	803	6256	PSYCHOLOGY
10	1	1	11	2		6	3				1		1	6	419	ANTHROPOLOGY AND ARCHEOLOGY
1156	7	9	10	6		1		2		1	14	1	8	110	1420	SOCIOLOGY
24	2500	42	15	4	5	1		2	1		133	123	2	72	2846	ECONOMICS AND ECONOMETRICS
21	43	1765	99	74	3	9	3	4	4	2	36	9	6	104	2117	POLITICAL SCIENCE & INTERNATIONAL RELATION
54	37	116	12408	3069	3697	1915	350	791	1372	1151	186	9	112	1516	14620	ARTS AND HUMANITIES,TOTAL
20	20	66	3041	2961	20	18	7	8	10	13	39	2	25	377	3614	HISTORY
8	3	13	3895	30	3583	150	6	16	70	15	53	4	19	347	4370	ENGLISH AND AMERICAN LANGUAGE AND LITERATURE
5	1	9	1768	22	23	1697	11	8	2	3	14	1	6	94	1913	MODERN FOREIGN LANGUAGE AND LITERATURE
	2	2	376	15	15	21	310	12	1	2	18		18	35	449	CLASSIC LANGUAGES AND LITERATURE
18	10	21	820	25	23	12	14	736	6	1	49	2	40	65	1079	PHILOSOPHY
1		1	1258	3	6	2			1232	11	4		2	132	1420	SPEECH AND DRAMATIC ARTS
2		2	1180	4	10	10	1	4	46	1102	9		2	453	1675	FINE ARTS AND MUSIC
44	367	71	268	89	40	23	23	46	32	4	2670	1512	579	518	4245	PROFESSIONAL FIELDS,TOTAL
8	344	17	19	8	3	2		2	4		1513	1501	1	149	2156	BUSINESS ADMINISTRATION
19	3	5	162	53	14	14	22	41	16	1	580	2	575	153	977	RELIGION AND THEOLOGY
67	43	46	373	95	69	51	7	17	71	59	111	34	28	13719	15207	EDUCATION
227	816	467	2065	480	419	526	121	344	61	99	903	104	665	663	22565	NO MASTER-UNK FLD
1760	4000	2628	15463	3921	4251	2558	514	1236	1560	1320	4207	1869	1428	18397	110845	ALL FIELDS,TOTAL

APPENDIX G

World Region of Baccalaureate of United States Doctorates From Foreign Countries, by Field, 1920 - 1966 and 1960 - 1966

World Region of Baccalaureate	Year of Doctorate	Doctorates by Field: PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CANADA	1920-66	2090	252	360	21	30	593	95	64	461	424	83	86	1648	503	167	339	389	15	235
	1960-66	664	81	108	19	27	129	55	34	132	214	36	58	473	151	55	102	117	11	37
MEXICO AND CENT. AMERICA	1920-66	80	11	18	3	1	19	10	2	3	29	4	2	137	52	18	22	35		10
	1960-66	50	6	11	3		9	8	1	2	22	4	2	93	42	7	15	26		3
SOUTH AMERICA	1920-66	183	34	38	4	7	26	3	12	18	67	9	15	146	37	25	36	37		11
	1960-66	134	28	27	3	6	19	3	11	8	52	8	13	79	25	5	24	23		2
NORTHWESTERN & CENT. EUROPE	1920-66	1175	132	202	18	21	298	73	57	79	464	29	83	532	146	85	134	100	3	64
	1960-66	581	68	81	14	16	126	50	41	46	260	20	48	260	85	36	65	52	2	20
UNITED KINGDOM	1920-66	523	71	71	9	3	123	32	30	48	210	20	41	217	61	26	52	42	2	34
	1960-66	293	37	31	7	3	63	27	21	32	130	16	24	136	43	14	32	31	2	14
GERMANY	1920-66	201	25	49	1	9	65	22	11	8	54	2	8	95	23	23	22	19	1	7
	1960-66	101	16	20	1	7	33	16	9	6	26	1	6	41	13	11	8	8		1
SOUTHERN EUROPE	1920-66	344	31	54	10	6	84	24	15	14	161	12	36	153	40	30	44	30		9
	1960-66	186	16	23	6	4	48	19	11	5	94	7	23	85	21	9	29	22		4
FRANCE	1920-66	157	17	27	3	4	31	4	7	7	75	7	12	34	5	9	13	5		2
	1960-66	68	6	8	2	3	11	3	4		43	3	10	16		5	6	4		1
ITALY	1920-66	45	6	8	2		6	2		4	21		5	23	4	5	6	7		1
	1960-66	21	5	3			1	1		3	9		3	12	2		6	4		
GREECE	1920-66	105	5	13	5	1	41	17	7	2	44	3	12	69	27	8	17	13		4
	1960-66	75	4	9	4	1	32	14	6	1	29	3	7	45	17	2	12	12		2
EASTERN EUROPE	1920-66	225	26	39	1	10	61	17	17	13	86	9	15	110	31	15	27	19		18
	1960-66	117	8	21	1	6	35	16	15	6	47	6	11	51	14	5	16	9		7
AFRICA, EXCL. EGYPT	1920-66	111	18	11	2	2	19	3	4	17	46	3	4	133	54	12	27	26	1	13
	1960-66	56	9	7	2	2	6	1	2	8	26	1	1	81	33	8	19	15	1	5
NEAR EAST	1920-66	898	65	94	9	15	176	45	24	41	522	55	86	663	200	114	111	160	3	75
	1960-66	578	48	58	9	13	116	37	19	29	327	36	47	385	115	73	69	93	3	32
EGYPT	1920-66	317	8	15	2	2	75	21	12	21	198	14	29	391	139	71	45	105	1	30
	1960-66	191	6	9	2	1	56	18	10	13	107	9	12	200	66	46	19	59	1	9
ISRAEL	1920-66	202	27	30	2	6	25	4	5	8	112	19	29	57	8	4	19	18		8
	1960-66	147	21	16	2	5	14	3	3	8	88	16	16	45	6	3	18	13		5
TURKEY	1920-66	125	3	12	1	2	8	3	1	1	101	7	14	33	8	8	6	4		7
	1960-66	74		7	1	2	5	3	1	1	61	3	8	15	5	5	3			2
OTHER NR. EAST	1920-66	254	27	37	4	5	68	17	6	11	111	15	14	182	45	31	41	33	2	30
	1960-66	166	21	26	4	5	41	13	5	7	71	8	11	125	38	19	29	21	2	16
INDIA	1920-66	1477	169	254	32	53	382	111	62	63	609	97	105	1210	381	163	221	263	3	179
	1960-66	1054	136	183	28	47	268	94	52	39	428	63	85	742	235	89	159	169	2	88
PAKISTAN	1920-66	97	10	15	2	2	32	5	4	7	33	2	5	176	66	17	26	47	2	18
	1960-66	56	7	11	1	2	15	4	3	4	19	2	3	104	32	12	15	30	2	13
CHINA, NATIONALIST	1920-66	1680	112	195	19	26	365	88	70	51	957	137	149	599	125	70	184	112	4	104
	1960-66	805	57	91	19	25	159	58	58	20	478	74	97	216	45	17	99	37	1	17
JAPAN	1920-66	314	30	79	12	10	91	27	27	18	96	9	23	119	16	13	28	38		24
	1960-66	214	22	56	10	10	64	22	19	6	66	6	17	78	11	8	18	25		16
KOREA	1920-66	180	17	45	10	9	53	10	21	3	62	25	11	85	12	22	27	16		8
	1960-66	159	13	43	10	9	47	10	17	3	53	24	7	61	10	10	23	12		6
OTHER S.E. ASIA AND INDONESIA	1920-66	128	13	15	2	2	43	13	12	9	48	2	9	134	23	34	25	27	3	22
	1960-66	97	10	14	2	2	36	11	12	6	31	2	4	92	19	17	21	15	3	17
AUSTRALIA AND NEW ZEALAND	1920-66	198	28	19	2	1	45	6	9	44	62	5	8	210	80	14	45	42	1	28
	1960-66	119	20	10	2	1	24	5	7	24	41	3	7	120	48	6	25	25	1	15
PHILIPPINES	1920-66	125	16	6			46	6	8	11	46	11	2	175	56	21	33	26	4	35
	1960-66	75	8	2			27	6	6	6	32	10	2	90	34	5	24	9	4	14
TOTAL FOREIGN	1920-66	9305	964	1444	147	195	2333	536	408	852	3712	492	639	6230	1822	820	1329	1367	39	853
	1960-66	4945	537	746	129	170	1128	399	308	344	2190	302	425	3010	920	362	723	679	30	296

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	World Region of Baccalaureate
877	259	29	92	370	67	772	168	184	182	96	74	16	28	234	64	110	441	6062	CANADA
335	117	17	27	111	32	215	47	47	50	20	22	9	15	98	42	25	170	1955	
38	5	7	6	16	3	37	7	1	27		1		1	7	1	2	12	311	MEXICO AND
29	5	5	4	13	1	17	4	1	11		1			4	1	1	7	200	CENT. AMERICA
61	8	7	12	25	4	45	2	3	31	1	6	1	1	8	2	3	13	456	SOUTH AMERICA
37	6	3	6	18	1	22	2	3	14	1		1	1	4	2	1	6	282	
549	111	19	56	210	98	572	106	86	245	35	43	8	38	151	30	62	108	3087	NORTHWESTERN &
264	50	11	27	107	38	233	38	44	95	17	12	7	18	70	21	23	51	1459	CENT. EUROPE
248	40	11	24	97	38	265	82	65	54	24	18	5	11	70	15	24	68	1391	UNITED KINGDOM
134	21	6	12	55	16	117	31	35	25	10	6	4	5	36	13	6	36	752	
113	31	3	8	46	22	160	10	10	112	5	12	1	9	30	3	18	17	616	GERMANY
51	15	1	4	23	8	68	4	4	48	4	2	1	5	13	3	8	6	280	
129	21	9	20	51	24	296	25	8	210	21	20		8	57	11	28	29	1008	SOUTHERN EUROPE
67	11	4	10	29	10	117	7	6	83	8	8		4	28	11	11	10	493	
47	7	4	4	18	13	163	11	1	133	5	5		5	15	4	3	8	424	FRANCE
18	2	2		10	4	54	3		45	1	1		3	5	4	1	4	165	
29	6	1	9	9	2	67	11	3	33	5	12		2	22	3	16	5	191	ITALY
17	5		5	3	2	32	3	2	19	2	5		1	12	3	7	1	95	
34	4	1	4	18	6	20	1	4	4	10			1	12	2	5	13	253	GREECE
21	2	1	3	12	2	11		4	3	4				5	2	1	4	161	
123	7	4	11	42	51	140	32	3	69	12	11	1	10	40	6	17	26	664	EASTERN EUROPE
49	4		5	17	19	64	18	3	30	6		1	5	11	3	2	8	300	
49	11	5	4	15	8	13	1	4	5	2		1		10	3	6	39	355	AFRICA,
26	5	4	2	6	6	9	1	4	3			1		5	1	3	23	200	EXCL. EGYPT
442	54	13	51	175	111	136	39	18	44	11	19		4	132	67	15	236	2507	NEAR EAST
241	37	6	27	91	58	70	17	9	25	9	5		4	87	46	8	131	1492	
161	13	4	21	69	32	25	5	5	13		1		1	77	49		118	1089	EGYPT
91	10	2	9	38	21	16	3	2	10				1	55	34		70	623	
77	26	2	3	36	6	38	10	3	11	9	4			23	7	11	19	416	ISRAEL
56	19	2	2	26	3	26	6	1	8	7	3			15	7	6	8	297	
31	5	4	5	9	8	18	4	3	5		3		3	10	3	3	12	229	TURKEY
10	4		2	1	3	7		2	2				3	6	1	1	8	120	
173	10	3	22	61	65	55	20	7	15	2	11			22	8	1	87	773	OTHER NR. EAST
4	4	2	14	26	31	21	8	4	5	2	2			11	4	1	45	452	
425	51	15	47	194	76	99	17	38	21	3	16	2		97	28	14	193	3501	INDIA
267	30	7	29	130	44	66	12	29	14	1	7	2		49	21		101	2279	
86	12	1	5	39	15	12	2	5	2		2		1	12	6	2	49	432	PAKISTAN
61	8	1	5	29	12	9	2	4	2				1	6	2		38	274	
365	33	3	31	158	124	114	41	17	25	1	21	1	5	99	34	14	127	2984	CHINA,
96	11	1	3	54	24	32	13	3	10		3	1	1	13	6		29	1191	NATIONALIST
89	17	2	10	44	12	48	5	6	21	4	6	2	4	28	3	13	30	628	JAPAN
54	13	1	1	28	7	37	4	4	20	2	3	1	3	16	3	7	19	418	
60	2		7	18	31	11	4	1	2		3		1	24	5	10	17	377	KOREA
53	2		5	17	27	7	4		2		1			18	5	5	10	308	
93	7	1	9	34	36	19	5	2	9		2			17	10	3	62	453	OTHER S.E. ASIA
61	4	1	4	27	24	14	3	2	7		1			8	5	1	35	307	AND INDONESIA
110	34	7	3	40	11	44	11	12	8	5	5	3		36	6	18	79	677	AUSTRALIA AND
58	15	4	2	23	6	25	8	5	6	3	1	2		19	4	11	40	381	NEW ZEALAND
88	16	2	10	29	26	47	10	13	7		11	2	3	47	7	8	160	642	PHILIPPINES
47	6	2	6	19	12	30	6	10	5		4	2	2	24	5	4	80	346	
3584	648	124	374	1460	697	2405	475	401	908	191	240	37	104	999	283	325	1621	24144	TOTAL FOREIGN
1745	324	67	163	719	321	967	186	174	377	67	68	27	54	460	178	102	758	11885	

Note to Appendix G: The countries included in the regions of postdoctoral job and foreign baccalaureate institution are listed below:

WORLD REGION OF POSTDOCTORAL JOB (10 REGIONS)

1. NORTH AND CENTRAL AMERICA

   Canada, Mexico, other countries of Central America, Islands

2. SOUTH AMERICA

3. NORTHERN EUROPE

   United Kingdom, Finland, Iceland, Norway, Sweden, Denmark

4. CENTRAL EUROPE

   Austria, Germany, Italy, Malta

5. WESTERN EUROPE

   Belgium, France, Netherlands, Portugal, Spain, Switzerland, Luxembourg

6. EASTERN EUROPE

   Bulgaria, Czechoslovakia, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Rumania, Ukraine, USSR, Yugoslavia

7. ASIA, WESTERN

   Afghanistan, Cyprus, India, Iran, Iraq, Israel, Jordan, Lebanon, Nepal, Palestine, Saudi Arabia, Turkey, Syria, Pakistan

8. ASIA, EASTERN

   Burma, Cambodia, Ceylon, China, Indo-China, Japan, Korea, Malaya and Singapore, North Borneo, Okinawa, Ryukyu Islands, South Vietnam, Thailand, Hong Kong, Manchuria

9. AUSTRALASIA

   Australia, Borneo, Guam, Indonesia, New Zealand, Philippine Islands, Samoa, Territory of New Guinea

10. AFRICA, INCLUDING EGYPT

WORLD REGION OF BACCALAUREATE INSTITUTION (16 REGIONS)

1. CANADA

2. MEXICO AND CENTRAL AMERICA

3. SOUTH AMERICA

4. NORTHWESTERN AND CENTRAL EUROPE

   Includes countries listed for Northern, Central, and Western Europe except Finland, Italy, Malta, France, Spain, Portugal

5. SOUTHERN EUROPE

   Malta, Italy, France, Spain, Portugal, Greece

6. EASTERN EUROPE

   Includes countries listed for Western Asia except Greece, and includes Finland

7. NEAR EAST

   Includes countries listed for Western Asia except India, Pakistan, and includes Egypt

8. INDIA

9. PAKISTAN

10. CHINA

11. JAPAN

12. KOREA

13. OTHER SOUTHEAST ASIAN COUNTRIES AND INDONESIA

    Includes countries listed for Eastern Asia and Australasia except China, Japan, Korea, Australia, New Zealand, Philippines

14. AUSTRALIA AND NEW ZEALAND

15. PHILIPPINE ISLANDS

16. AFRICA, EXCLUDING EGYPT

APPENDIX H

SURVEY OF EARNED DOCTORATES

AWARDED IN

THE UNITED STATES

SPONSORED AND CONDUCTED BY

THE GRADUATE DEANS,
THE NATIONAL ACADEMY OF SCIENCES–NATIONAL RESEARCH COUNCIL,
THE U.S. OFFICE OF EDUCATION AND THE NATIONAL SCIENCE FOUNDATION

IN COOPERATION WITH

THE AMERICAN COUNCIL OF LEARNED SOCIETIES
AND THE SOCIAL SCIENCE RESEARCH COUNCIL

TO BE RETURNED TO
THE GRADUATE DEAN FOR
FORWARDING TO

DIRECTOR OF RESEARCH
OFFICE OF SCIENTIFIC PERSONNEL
NATIONAL RESEARCH COUNCIL
2101 CONSTITUTION AVE., N.W.
WASHINGTON, D.C. 20418

SURVEY OF EARNED DOCTORATES

Social Security Number: - -

A. Name in *full:* (7-28) Last First Middle Maiden

B. Permanent address through which you can always be reached: Care of (if applicable)
Number Street City State Zip Code

C. Date of birth: (29, 30) Month, day, year

D. Place of birth: (31, 32) State; or country if not U.S.

E. (29) 12 ☐ Married; 11☐ Not married (including divorced, widowed)

F. 11☐ Male (30)12☐ Female

G. 0☐ U.S. Citizen (33)1☐ Non-U.S., permanent resident 2☐ Non-U.S., U.S. citizenship applied for 3☐ Non-U.S., other (if non-U.S., specify nationality)

H. (34) Number of dependents. Use U.S. income tax definition, but do not include yourself

Secondary or high school last attended

I. Name and location (35,36)

J. Size of graduating class (37) ☐ 1-9; ☐ 10-19; ☐ 20-39; ☐ 40-59; ☐ 60-99; ☐ 100-199; ☐ 200-499; ☐ 500 and over.
0 1 2 3 4 5 6 7

K. Type of school (38) ☐ Public ☐ Private, denominational ☐ Private, non-denominational.
0 1 2

L. Year of graduation from high school (39,40)

DO NOT WRITE HERE
29,30 ( ) ( )
31,32
33
34
35-36
37
38
39-40
41-44 ( )
45-47
( )
48-49

M. List in the table below all collegiate and graduate institutions you have attended, beginning with the first and ending with the one from which you are about to receive your present doctoral degree:

Institution and its location	Dates attended (years only) From	To	Check if full time	Major field Name	Number (see list)	Minor field (Name)	Degree (if any)	Month & year granted

N. List title of your doctoral dissertation (if more than one, give year of degree for each) and enter the most appropriate classification *number* and *title* selected from the accompanying separate Specialties List:

Title of dissertation(s)	Classify. using Specialties List: Number	Field Name

O. Please check the box which most fully describes your employment status during the year preceding the doctorate award. (68)
0 ☐ Student, part-time employed. (incl. graduate assistants)
1 ☐ Student, not employed.
2 ☐ On fellowship
Full Time Empl. in: 3☐ College or university. 4☐ Elem. or secondary school, teaching. 5☐ Elem. or secondary school, non-teaching. 6☐ Other category.
7☐ Working on research grant.
8☐ Other status. (specify)

P. Indicate total years of professional work experience (full time or full-time equivalent). (69)
0 ☐ None. 1 ☐ Less than 1 year. 2 ☐ 1-1.9 years. 3 ☐ 2-2.9 years. 4 ☐ 3-3.9 years. 5 ☐ 4-5.9 years. 6 ☐ 6-7.9 years. 7 ☐ 8-9.9 years. 8 ☐ 10-14.9 years. 9 ☐ 15 years or more.

Q. Indicate your prospects and arrangements for your professional future (please check only one). (70)
0 ☐ Am seeking employment but have no specific prospects.
1 ☐ Am negotiating with a specific employer, or more than one.
2 ☐ Have signed contract or made definite commitment (other than categories below).
3 ☐ Returning to, or continuing in, predoctoral employment.
4 ☐ Military service—active duty.
5 ☐ Have postdoctoral fellowship, sabbatical leave, or equivalent arrangement
6 ☐ Other (explain):

R. Indicate type or class of postdoctoral employer (check only one). (71)
0 ☐ U.S. college or university.
1 ☐ U.S. elementary or secondary school
2 ☐ U.S. gov't—federal civilian employee.
3 ☐ Foreign: governmental or private.
4 ☐ State, local, or other government within the U.S. (except educational institutions).
5 ☐ Non-profit organization (other than 0, 1, 2, 3, or 4).
6 ☐ Industry or business.
7 ☐ Self-employed.
8 ☐ None.
9 ☐ Other (Specify)

S. Place of postdoctoral employment (state; or country if not U.S.). (72,73)

T. Is your postdoctoral activity primarily 0☐ Research 1☐ Teaching 2☐ Administration 3☐ Professional services
4 ☐ Fellowship 5☐ Other (explain) (74)

U. Indicate, by circling highest grade attained, the education of

(75) your father:	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD, PhD	Postdoctoral
		grammar school								High sch				College				Graduate	
(76) your mother:	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD, PhD	Postdoctoral

V. How many older brothers did you have? (if none, write zero) (77)
older sisters? (78) younger brothers? (79) younger sisters (80)

W. Enter here the name of your major adviser
(last name)
(first name, middle initial)

X. List all national professional societies of which you are a member. Write out identifying words in full:

DO NOT WRITE HERE
50-53
54-56 ( )
57,58
59-62
63-65 ( )
66,67
68
69
70
71
72,73
74
75,76
77,78
79,80

Write in any supplementary information which you believe necessary to complete or explain your answer, or your inability to answer any previous items, referring to each item by letter, on the back of this sheet.

Date prepared Signature

NSF Form 9C-17 Jan. 63
Budget Bureau No. 99.R054.3.
Approval expires 30 June 66

APPENDIX H
continued

SPECIALTIES LIST

FOR USE WITH ITEMS M AND N OF THE QUESTIONNAIRE FOR THE

SURVEY OF EARNED DOCTORATES

Mathematics

000—Algebra
010—Analysis
020—Geometry
030—Logic
040—Number Theory
050—Probability, Math Stat.
(see also 544, 670, 725, 920)
060—Topology
070—Topol. Algebraic Structures
080—Computing Theory & Practice
085—Applied Mathematics

098—Mathematics, General
099—Mathematics, Other
(note also 984: Math Educ.)

Physics and Astronomy

(Note: Theoretical scientists mark "T" on questionnaire following code No.)

100—Astronomy

110—Atomic & Molec. Physics
120—Electricity & Magnetism
130—Mechanics
132—Acoustics
134—Fluids
136—Optics
138—Thermal Phenomena
140—Elementary Particles
150—Nuclear Structure
160—Solid State

198—Physics, General
199—Physics, Other

Chemistry

200—Analytical
210—Inorganic
220—Organic
230—Nuclear
240—Physical
250—Theoretical
260—Agricultural & Food
270—Pharmaceutical

298—Chemistry, General
299—Chemistry, Other

(see also Biochemistry, 540)

Earth Sciences

300—Mineralogy, Petrology, Geochemistry
310—Stratig.-sedimentation
320—Paleontology
330—Structural Geology
340—Solid Earth Geophysics
350—Geomorph., Glacial Geology
360—Hydrology
370—Oceanography
380—Meteorology
390—Applied Geol.: Geol. Engr.; Econ. Geol.; Petroleum Geol.

398—Earth Sciences, General
399—Earth Sciences, Other

Fields Not Elsewhere Classified

899—Sci., General; Sci., Other; Other General Field

Engineering

400—Aeronautical
410—Agricultural
420—Civil
430—Chemical
435—Ceramic
440—Electrical
445—Electronics
450—Industrial
460—Engineering Mechanics
465—Engineering Physics
470—Mechanical
475—Metallurgy & Met. Engineering
480—Sanitary
485—Textile

498—Engineering, General
499—Engineering, Other

Agricultural Sciences

500—Agronomy
502—Animal Husbandry
504—Fish & Wildlife
505—Forestry
506—Horticulture

508—Agriculture, General
509—Agriculture, Other

Medical Sciences

510—Medicine & Surgery
511—Pharmacy
512—Public Health
513—Veterinary Medicine
514—Hospital Administration

518—Medical Sciences, General
519—Medical Sciences, Other

Biological Sciences

520—Anatomy
522—Cytology
524—Embryology
530—Physiology, Animal
532—Physiology, Plant
534—Pathology
536—Pharmacology
540—Biochemistry
542—Biophysics
544—Biometrics, Biostatistics
(see also 050, 670, 725, 920)
550—Botany
552—Phytopathology
560—Ecology
582—Entomology
570—Genetics
562—Hydrobiology
564—Microbiology
580—Zoology

598—Bio-Science, General
599—Bio-Science, Other

Psychology

600—Clinical
610—Counseling & Guidance
620—Developmental Gerontological
630—Educational
641—Experimental
642—Comparative
643—Physiological
650—Industrial & Personnel
660—Personality
670—Psychometrics
(see also 050, 544, 920)
635—School Psychology
680—Social

698—Psychology, General
699—Psychology, Other

Social Sciences

700—Anthropology
705—Archeology
745—Area Studies (specify area)
720—Economics
725—Econometrics & Statistics
(see also 050, 544, 670, 920)
730—History
740—Geography
755—International Relations
750—Political Science, Public Admin.
760—Social Work
710—Sociology

798—Social Sciences, General
799—Social Sciences, Other

Arts & Humanities

800—Art, Fine & Applied (incl. hist. & crit.)
810—English Language & Lit. (incl. Amer.)
820—Foreign Lang. & Lit. Modern (specify)
822—Foreign Lang. & Lit. Classical (specify)
825—Linguistics
830—Music
840—Philosophy
815—Speech & Dramatic Arts

888—Arts & Humanities, General
889—Arts & Humanities, Other

Prof. Fields Not Listed Above

850—Business Administration
855—Home Economics
860—Journalism
865—Law, Jurisprudence
870—Library & Archival Science
880—Religion & Theology

Education

Note: For fields 900-947 and 960-967 final digit indicates level: 0—unspecified; 1—preschool; 2—elem.; 3—secondary; 4—teacher training; 5—higher educ.; 6—adult educ.; 7—other.

900—Foundations: Social, Philosoph.
908—Elem. Educ., General
909—Secondary Educ., General
910—Educational Psychology
920—Educ. Meas. & Stat.
930—Educ. Admin. & Superv.
940—Guid., Couns., Student Pers.
950-959—Special Education
950—Field Unspecified
952—Gifted
954—Speech
956—Phys. Handicapped
958—Emot. & Ment. Handicapped
960—Audio-Visual Media

Note: For fields 970-997, and 952-959 even number is for secondary level; next odd number indicates other than secondary level.

970—Agric.
972—Art
974—Business
976—English
978—Foreign L.
980—Home Ec.
982—Ind. Arts
984—Math
986—Music
988—Phys. Ed., Health & Recreation
990—Science Educ.
992—Social Sci. Educ.
994—Vocational Educ.
996—Other Special Field
998—Educ., General
999—Educ., Other

TO THE DOCTORAL CANDIDATE

Who Wants This Information, and Why?

Educators, employers, the scientific and professional community, and the nation generally are vitally interested in accurate up-to-date information on all doctorate holders. Aspects of this interest include the number graduating in each of the various fields, rate of increase, where these scholars come from, their routes to the doctoral degree, and employment plans made prior to graduation.

The interest of the graduate schools is evidenced by the cooperation of all the Graduate Deans of the United States and Territories in distributing these questionnaires to you and other doctoral candidates, collecting and forwarding them, and receiving reports on the data. The National Academy of Sciences-National Research Council has been conducting and publishing studies of doctorate holders from 1936 to the present time, emphasizing their schools of undergraduate origin as well as other data concerning them. The National Science Foundation maintains for the Federal Government the National Register of Scientific and Technical Personnel. This Survey of Earned Doctorates includes *all fields* in which doctorates are currently conferred: not only the natural sciences and engineering, but also the arts, languages, social sciences, etc.

Among the goals of the questionnaire is the gathering of information on persons who attain high levels of academic achievement, including data on the background factors which may be related to this success. By providing this information, you make possible improvements in policies and programs of advanced training. Also, information concerning your professional development and utilization of your training will become increasingly important when it is collected and analyzed.

What Information is Wanted, Now and Later?

The information wanted on the questionnaire to the left is largely self-explanatory. Please detach it along the perforated line, complete it, and return it to your Graduate Dean. On the back of this sheet is a Specialties List with code numbers and titles for classifying the field of your dissertation, to be used only with Items M and N of the questionnaire. If none of the detailed fields listed seems to be appropriate, note the "General" and "Other" categories. If you use a category which states parenthetically to "specify," please include the essential details in the right-hand column of Item N.

Those of you who are in the fields of natural science or engineering and certain related areas may expect to receive a questionnaire from one of the participating professional societies in the NSF's National Register of Scientific and Technical Personnel, including: the American Chemical Society, American Geological Institute, American Institute of Biological Sciences, American Institute of Physics, American Mathematical Society, American Meteorological Society, American Psychological Association, Engineers Joint Council, Federation of American Societies for Experimental Biology. One of its major purposes will be to obtain further information about your postdoctoral employment and areas of specialization.

For all doctorate holders, your cooperation in completing this questionnaire will be of great value within your particular discipline and to the scientific and scholarly community generally.